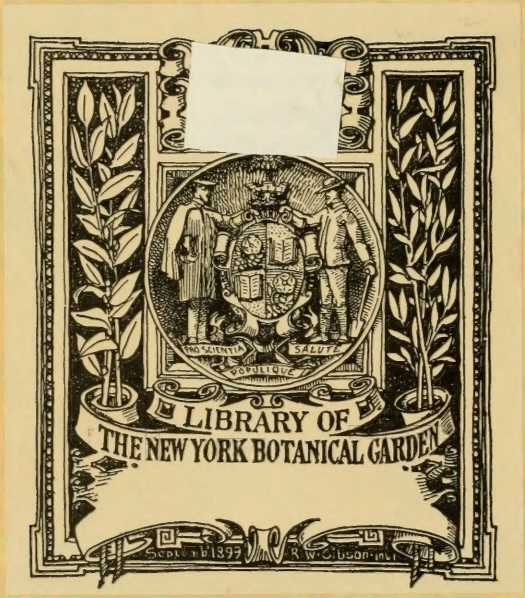
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THE FLORA OF THE DUTCH WEST INDIAN ISLANDS ST. EUSTATIUS, SABA AND ST. MARTIN.

PROEFSCHRIFT TER VERKRIJGING VAN DEN GRAAD VAN DOCTOR IN DE PLANT- EN DIERKUNDE AAN DE RIJKS-UNIVERSITEIT TE UTRECHT, OP GEZAG VAN DEN RECTOR MAGNIFICUS DR. JAN DE VRIES, HOOGLEERAAR IN DE FACULTEIT DER WIS- EN NATUURKUNDE, VOLGENS BESLUIT VAN DEN SENAAT DER UNIVERSITEIT TEGEN DE BEDENKINGEN VAN DE FACULTEIT DER WIS- EN NATUURKUNDE TE VERDEDIGEN OP DONDERDAG 1 JULI 1909, DES NAMIDDAGS TE 4 UREN DOOR ISAÄC BOLDINGH, GEBOREN TE PURMEREND :—: :—:

BOEKHANDEL EN DRUKKERIJ
voorheen
E. J. BRILL. — LEIDEN
1909.

THE FLORA OF THE DUTCH WEST INDIAN ISLANDS St. EUSTATIUS, SABA AND St. MARTIN.

I. BOLDINGH.

The Flora of the
Dutch West Indian Islands St. Eustatius,
Saba and St. Martin.

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Aan mijne Moeder
en aan de nagedachtenis van mijn Vader.

Gaarne de gewoonte volgend om ook op papier een woord te richten tot hen, die de leiders zijn geweest bij de studie in dat levenstijdperk, dat ligt tusschen de eerste inschrijving als Student aan eene Hoogeschool en de Promotie plechtigheid, is het mij een groot voorrecht hier dank te brengen aan U, Hooggeleerde Heeren Professoren in de Faculteit der Wis- en Natuurkunde aan de Utrechtsche Hoogeschool.

Geldt mijn dank in 't algemeen U allen, ik hecht er veel waarde aan in 't bijzonder U te noemen, Hooggeleerde HUBRECHT en WICHMANN.

Maar bovenal Hooggeachte Promotor, Hooggeleerde WENT, mijn dank aan U, bij wien ik het voorrecht heb gehad de laatste jaren van mijn studietijd assistent te zijn. Ik acht mij gelukkig, dat het einde van mijn student-zijn niet als dadelijk gevolg meesleept het einde van mijn assistentschap.

De herinnering aan den grooten steun, dien ik van U mocht ondervinden zal mij steeds bij blijven, tegelijk met die aan de aangename wijze, waarop Gij mij invoerde in de studie der Botanie.

Met grooten dank voor hunnen steun bij mijne studiereis noem ik hier: de Maatschappij tot bevordering van het Natuurkundig Onderzoek der Nederlandsche Koloniën, de Koninklijke Akademie van Wetenschappen te Amsterdam, de Commissie van het F. W. van Eedenfonds en de Directie van het Provinciaal Utrechtsch Genootschap van Kunsten en Wetenschappen.

1931 12 NOV.

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STELLINGEN.

I.

Bij de bestudeering van de Flora der West-Indische Eilanden moet meer dan tot nu toe geschied is, gelet worden op de verspreiding der planten op elk eiland in 't bijzonder.

II.

De indeeling der Antillen volgens E. Suess is ook om floristische redenen te verkiezen boven die van P. T. Cleve.

III.

Conocarpus erectus Linn. is geen Mangroveplant.

IV.

Batis maritima Linn. behoort niet tot de Orde der Centrospermae.

V.

De nieuwere onderzoekingen over de embryozak der Phanerogamen verminderen de waarde der phylogenetische beschouwingen, zooals die door O. Porsch zijn gegeven.

VI.

Op phylogenetische gronden is het gebruik van het begrip „Gesammtart" niet te verdedigen; ook heeft het geene andere dan verwarrende uitwerking. (Ascherson und Gräbner: Synopsis der Mitteleuropäischen Flora).

VII.

Onze kennis van de Bacteriaceae en Cyanophyceae is te onvolledig om daaruit conclusies te trekken omtrent de cytologie van de oercel.

VIII.

De Appendicularia zijn geen neotenische Ascidienlarven.

IX.

De Cetacea vormen eene monophyletische groep.

X.

Hyolithidae zijn verwant met Cephalopoda.

XI.

De White Wall op St. Eustatius is ontstaan door plaatselijke opheffing.

XII.

In een herbarium is alphabetische rangschikking van de Species eener zelfde Plantenfamilie de beste.

THE FLORA OF THE DUTCH WEST INDIAN ISLANDS.

I. The Flora of St. Eustatius, Saba and St. Martin.

THE FLORA OF THE DUTCH WEST INDIAN ISLANDS.

FIRST VOLUME

St. Eustatius, Saba and St. Martin

by

I BOLDINGH.

BOEKHANDEL EN DRUKKERIJ
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PREFACE.

Mrs. J. van Grol-Meyers, wife to Mr. G. J. van Grol, administrator of the Dutch West Indian Island St. Eustatius, sent to the „Koloniaal Museum in Haarlem" a nice collection of dried plants collected in St. Eustatius in the years 1904—1906.
She also gave such a collection to the Herbarium of the Botanical Laboratory of the University of Utrecht.
The latter collection of about 350 numbers gave rise to a renewed investigation to the Flora of the Dutch West Indian Islands.
I am glad to say that the collection made by Mrs. J. van Grol-Meyers is a very good one. The name of Mr. van Grol himself is well known to the student of the Melocacti of the Dutch West Indian Islands, and the work Mrs. van Grol did now, proved to be a great help for the study of the Flora of the Dutch West Indies
Prof. Dr. F. A. F. C. Went, Director of the Botanical Laboratory and Garden of the University of Utrecht kindly intrusted to me the determination of the collection of the above mentioned West Indian Plants, and in 1905 he proposed to me to make a voyage to the three Dutch West Indian Islands St. Eustatius, Saba and St. Martin in order to get acquainted with the vegetation there and to get a collection of the plants from the three Islands.
I wish to express my thanks to „De Maatschappij ter Bevordering van het Natuurkundig Onderzoek der Nederlandsche Koloniën („Society for promoting Scientific Investigation in the Dutch Colonies"), De Koninklijke Akademie van Wetenschappen (Korthalsfonds) te Amsterdam, the „Commissie van het F. W. van Eedenfonds in Haarlem" and the „Directie van het Provinciaal Utrechtsch Genootschap van Kunsten en Wetenschappen" (Provincial Utrecht Society of Art and Science), who subsided and so made it possible for me to undertake the above mentioned investigations.
Most of all I am indebted to the kindness of Prof. F. A. F. C. Went who, after having taken the initiative for my study of the

Given by N. L. BRITTON,

Flora of the Dutch West Indies, has helped me so energetically by his personal advice as well as by his influence with the above mentioned Societies.

I am glad to have an opportunity now to express my thanks to all those who have helped me in any way in promoting my studies. As to the Dutch Antilles I thankfully mention the Governor of Curaçao Jhr. J. O. de Jong van Beek en Donk and the administrators of St. Eustatius, G. J. van Grol, and T. G. Groebe, the administrator of Saba H. J. Beaujon, the administrator of St. Martin A. J. C. Brouwer and the maire of the French Part of St. Martin D. Beauperthuy.

Moreover: in St. Eustatius: Mrs. J. van Grol-Meyers, Mr. J. Morgan Griffith, Rev. P. Delgueur, Mr. J. G. C. Every, Messr. Hill and Mr. Hassel; in Saba: Dr. A. C. W. Lionarons, Rev. Mulder and Mr. T. Holms; in St. Martin: Mr. J. A. Gravestein, Mr. L. A. van Romond, Mr. A. A. van Romondt, Mr. D. J. van Romondt, Mr. W. E. van Romondt, Mr. W. Netherwood and Mr. F. Morales.

During my voyage to the West Indies I experienced much friendly help from Sir Daniel Morris, Mr. J. R. Bovell, R. P. Duss, Mr. Stephens and Mr. Shepherd.

I also highly appreciate the assistance I got in Holland where I was informed with the greatest loyality by Mr. L. A. Bakhuis, Dr. J. Boeke, Dr. M. Greshoff, Dr. G. A. F. Molengraaff, Dr. J. Valckenier Suringar and Dr. C. E. A. Wichmann.

According to the wishes of the „Commissie van het F. W. van Eedenfonds" I paid much attention to the cultivated plants too; in a former publication: Lijst van Planten die door de bewoners van de drie Nederlandsche Antillen, St. Eustatius, Saba en St. Martin als geneeskrachtig worden beschouwd (Bull. Kolon. Mus. Haarlem n. 38 (2907) p. 93—112), I wrote on the use made of certain plants and in this Flora now I have enumerated all the cultivated plants I met with and which I was able to determine.

I also feel very much indebted to the following Directors of „'s Rijks Herbarium" at Leiden viz: Dr. J. M. Janse, Dr. J. P. Lotsy and Dr. J. W. C. Goethart, who greatly facilitated by their kind assistance my working there on the collection of Dr. F. W. R. Suringar.

But most of all I kindly thank Prof. I Urban for his assistance when I was working in the magnificent Herbarium Krug et Urban in the Königl. Bot. Garten und Museum Steglitz-Dahlem (Berlin.).

Although the time I could be there was only very short, my visit

however has been of great use to me owing to the kind assistance of Prof. Urban in looking after doubtful determinations and undeterminated plants and in describing some new species. He has enabled me by his great knowledge to bring out the names of some plants that were collected without flowers or fruits.
I feel inclined to express my thanks to Mr. O. E. Schulz and Dr. F. Niedenzu for the determination of some plants and to Dr. H. Hallier, Dr. A. A. Pulle and Dr. S. H. Koorders for their advices. My best thanks also to Mr. S. Perrin who has helped me in looking after the English text of this Flora.

This Flora is divided in Three Parts; whereas the different Parts, Sections and Chapters need no further explanation a short account of the methods I followed in nomenclature, synonymy and distribution of plants is given here.
The enumeration of Families and Genera is very nearly given after the order of De Dalle Torre et Harms: Genera siphonogamarum ad systema Englerianum Conscripta (1908).
In a few cases I thougt it better to follow:
Urban: Symbolae Antillanae vol. I, II, III, IV (fasc. 1 and 2), V, VI (fasc. 1) and Urban: Additamenta ad Cognitionem Florae Indiae Occidentalis 1892—97.
The names of the species used are mostly drawn from the two latter papers, Engler und Prantl.: Die natürlichen Pflanzenfamilie up to 1909, Engler: Regnum Vegetabile up to 1909, or from other monographs.
Whenever I could not find any name in the above mentioned publications I took the name I thought best after the International rules for Botanical Nomenclature chiefly of Vascular Plants. Wien 1905. (Verh. Int. Bot. Congr. 1805 Wien.).
Besides the names thus given I also mention the synonyms that are used in: Grisebach: Flora of the British West Indian Islands, Duss: Flore phanérogamique des Antilles françaises, Millspaugh: Flora of the Island of St. Croix, and Jackson: Index Kewensis up to 1909 and in a very few cases still another one.
I tried to get aim at the greatest completeness possible in giving the data about the names thus used, and I also mentioned the pages where the plants are given up in: Grisebach: Flora of the

British West Indian Islands, Duss: Flore phanérogamique des Antilles françaises, Millspaugh: Flore of the Island of St. Croix and in a few cases still some other work.
To every plant is added the name of the Dutch West Indian Leeward Island where it is found in this order: St. Eustatius, Saba, St. Martin; whenever I saw or collected it also on Anguilla this Island too is mentioned [1]) and when the plant is also known from St. Croix this Island is named after Anguilla.
I have mentioned as much as I could find about the distribution of the plants in all parts of the world, and these data are taken from the following publications in this order:
Urban: Symbolae Antillanae Vol. I, II, III, IV (fasc. 1 and 2), V, VI (fasc. 1) and Additamenta ad Cognitionem Florae Indiae Occidentalis (1892—97), Engler: Regnum vegetabile up to April 1909, Engler und Prantl: Die Natürlichen Pflanzenfamilien up to 1909, newer Monographs and Jackson: Index Kewensis up to 1909.
For the abbreviated names see under Literature.
Prof. Urban was so kind as to allow me the use of the not yet published data from the Herbar Krug et Urban Berlin (Steglitz-Dahlem). A few data are from „'s Rijksherbarium" at Leiden.
Whenever I could not find that a plant was known in other parts of the world besides the Antilles, then the names of all the Islands where it is found are enumerated.

The Systematic Part consists of the plants belonging to the collections of Suringar, van Grol-Meyers, Lionarons and Boldingh.
The numbers with B. added are from the collection Boldingh, marked G. are from the collection van Grol-Meyers when they belong to the collection in the Herbarium at Utrecht, marked H when they belong to the collection in the Koloniaal Museum at Haarlem; the numbers marked L. are from the collection Lionarons and the numbers where no initials are added are from the collection Suringar.
The numbers of the collections Suringar were not given by Suringar when he collected the plants (as Suringar dit not put any number on the labels) but they are only the last ciphers of the long number that is fixed to the paper on which the plants are mounted in „'s Rijks Herbarium" at Leiden.
As I am sure that when giving the name under which the plant

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[1]) See Literature: Boldingh.

is mounted and these ciphers the plant is sufficiently indicated, I thought it better not to give the long numbers that are used in „'s Rijks Herbarium".
The plants collected in the different Islands are thus given: collection Boldingh, collection Suringar, both in the order of the day of collecting, collections Van Grol-Meyers and collection Lionarons. Not all the vernacular names people told me are given here, but the names I have given in this Flora are used without any doubt. The heights where the plants were collected are given with the greatest accuracy possible.
Whenever a plant struck my attention although I did not think it necessary to collect it, I made some notes about it; these notes are also to be found in this Flora, printed with small type.

As to the flowering and fruiting time of the plants I did not think it necessary to mention with every plant whether I collected flowers on fruits as the greater part of the plants are collected with flowers, either by Suringar, Van Grol-Meyers or by myself.

I wish to draw the attention to the fact that I have tried to render this Flora of the Dutch West Indian Islands as complete as possible, both by what my own investigations have taught me and what I could find elsewhere.
Only the genus Melocactus has not been studied with the same care, as I was sure I could not add anything to the work done by Suringar on this head by the data I could bring together without giving too much time to it. So I refer to the studies of F. W. R. Suringar on Melocactus and those of J. Valckenier Suringar.

Botanical Laboratory of the University
in Utrecht.

June 1909.

Additions and Corrections.

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13 Line 19 from top. *For* 1859 *read* 1889.

17 Line 9 from top. *After* Millspauch 437 *insert*, *Panicum lanatum* Rottb. in Act. litt. univ. Hafn. I (1778) 269.

47 Line 16 from bottom. *After* 81 *insert* 60*a*.

79 Line 4 from top. *For* **macrantha** *read*, **macracantha.**

100 Line 15 a from top. *Insert*, **St. Martin**: Tintamarre: n. 3376 B.

106 Line 16 from bottom. *After* (Symb.). *insert*, Baham. (Hitchc.).

119 Line 1 from top and line 8 from bottom. *For* 1885 *read* 1883.

164 Line 15 from top. *For* Antill., Cuba to French Islands. (Gris. Fl.). *read*: Jamaica, Hispaniola, Portorico, St. Thomas, Guadeloupe, Dominica, Martinique, St. Lucia, St. Vincent, Barbados. (Herb. Krug et Urban).

178 Line 11 from top. *For* Antill. (Gris. Fl.). *read*: St. Thomas, St. Jan, Guadeloupe, Desirade, Les Saintes, Marie-Galante, Dominica, Martinique, St. Vincent, Barbados. (Herb. Krug et Urban).

235 Line 9a from bottom. *Insert*, *J. W. W. Spencer*. Reconstruction of the Antillean Continent. Bull. Geol. Soc. Amer. 6. 1894 p. 103—146.

Map of St. Eustatius: Bengalen is to be put to the N. E. of the Quill.
Map of The Dutch W. I. Islands: *For* Barbada *read* Barbuda.
Map of Saba: *For* Marizot *read* Marigot.

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FIRST PART

SYSTEMATICAL

Pteridophyta.

Hymenophyllaceae.

Trichomanes Linn.

Trichomanes alatum Sw. in Schrad. Journ. 1800. II (1801) 77; Gris. Fl. 654.

Saba: Mountain 800 M.: n. 2204 B., 2206 B., 1, 6.

Antill., Amer. austral. (Symb.).

Hymenophyllum Smith.

Hymenophyllum hirtellum Sw. Schrad. Journ. 1800, 2. 100; Gris. Fl. 659.

Saba: Mountain 800 M.: n. 1814 B., 1815 B., 1816 B., 2201 B., 7.

Antill., Amer. centr., Mexico. (Christensen 1906.)

Cyatheaceae.

Cyathea J. E. Sm.

Cyathea arborea J. E. Sm. in Mém. Acad. Scienc. Turin V (1790) 417; Gris. Fl. 704.

Saba: Mountain 600 M.: n. 1755 B.

Antill., Bras. (Symb.).

Cyathea serra Willd. Spec. Plant. V. I (1810) 491; Gris. Fl. 704.

St. Eustatius: Top of the Quill: n. 163, 164, 171, 172, 173, 174, 175.

I only saw two specimens of a Ferntree in the Quill, in a very deep gut and it was impossible for me to get a part of it; most probably it was Cyathea serra.

Saba: Mountain near Windwardside 600 M.: n. 2170 B.; Rendez-vous Mountain: n. 46.

Antill., Bras., Mexico. (Symb.).

Hemitelia R. Br.

Hemitelia horrida R. Br. Prodr. I (1810) 158; Gris. Fl. 706.
Saba: Mountain 800 M.: n. 2221 B., 2225 B., 165, 188 L., 189 L.
Antill., Amer. austr. sept. (Symb.).

Alsophila R. Br.

Alsophila phalerata Mart. Ic. Cr. Bras (1834) 67 t. 30 f. I. t. 42.
Saba: Mountain 800 M.: n. 2220 B., 39, 40, 41, 42, 43, 44, 45, 170.
Amer. trop. (Christensen 1906.).

Polypodiaceae.

Dryopteris Adans.

Dryopteris opposita Urb. in Symbolae Antillanae IV (1903) 14.
Aspidium conterminum Willd. Spec. Plant. V. I. (1810) 249; Gris. Fl. 691.
Nephrodium oppositum Diels in Engl.-Prantl. Nat. Pflanzenfam. I. 4 (1889) 172 (non Hook). (Symb.).
Saba: Gut near Bottom: n. 1434 B.; Top of the Mountain: n. 1798 B., 1808 B., 2151 B., 2195 B.; Mountain near Hellsgate: n. 2285*a* B.; Mountain: n. 182, 183, 184, 185; Rendez-vous Mountain: n. 186; Crespeen: n. 253 A; locality unknown: n. 1660*a* B., 220 L.
Antill., Amer. cont. trop. (Symb.).

Dryopteris parasitica O. Ktze. Rev. Gen. Pl. 2 (1891) 811.
Aspidium molle Sw. Schrad. Journ. 1800². 34 (1801); Gris. Fl. 693; Millspaugh 468.
St. Eustatius: slope of the Quill 350 M.: n. 407 B.; inner slope of the Quill 350 M.: n. 463 B.; Quill: n. 116, 122; locality unknown: n. 258 H., 258*a* G., 276 G.; Bengalen: n. 16.
Saba: Gut near the Bottom: n. 1423*a* B., 1431*a* B.; Booby-hill: n. 1592*a* B.; Hellsgate to Sulphurmines: n. 1673 B.; Mountain: n. 1750*a* B., 1761*a* B.; Mountaintop: n. 1832 B.; Sulphurmines to Marypoint: n. 2063*a* B.; Mountain near Hellsgate: n. 2282*a* B.; Mountain: n. 224, 230, 234; Rendez-vous. 4—600 M.: n. 169; Jenkeygut: n. 15.
St. Martin: Marigothill—Marigot 0—200 M.: n. 2644 B.; in an

orchard near Bellevue: n. 2832 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2895 B.; hill on the northern side of Cul de sac: n. 3007*a* B.; Milldrumhill 300—400 M.: n. 3182 B., 3183 B.; Mount Paradis 300—400 M.: n. 3239 B.; gut from Bethlehem to Cul de sac: n. 3413 B.; Centryhill: n. 76.

St. Croix ex Millspaugh.

Baham., Bermud., Antill., Amer. trop., Africa, Asia austro-orient., Australia, Nova Zeal. (Symb.).

Dryopteris reticulata Urb. Symbolae Antillanae IV (1903) 22.

Meniscium reticulatum Sw. in Schrad. Journ. 1800. II (1801) 10; Gris. Fl. 687.

Saba: Mountain 800 M.: n. 1822 B., 2215 B.

Amer. trop. (Christensen 1906).

Aspidium Sw.

Aspidium Plumierii Presl. Rel. Haenk. I (1830) 29.

Aspidium trifoliatum forma Gris. Flor. W. I. (1864) 695.

St. Eustatius: Quill: n. 123; Bengalen: n. 82; inner slope of the Quill: n. 437 B.

Saba: Mountain 800 M.: n. 2199 B., 1, 2; locality unknown: n. 212 L.

Portorico, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada, Tobago, Trinidad. (Symb.).

Aspidium trifoliatum Sw. in Schrad. Journ. 1800. II (1801) 303; Gris. Fl. 695 (p.p.). (Symb.).

Saba: Mountain 800 M.: n. 1823 B.; Mountain near Hellsgate 600 M.: n. 2286 B.; Crespeen-Rendez-vous 400 M.: n. 3, 4; Gainbygut: n. 227.

Antill., Amer. centr. and austr. (Symb.).

Polybotrya H. et B.

Polybotrya cervina Klfs. Enum. (1824) 55.

Olfersia cervina Kze. in Regensb. Flora VII. I (1824) 312; Gris. Fl. 678.

Saba: Mountain 800 M.: n. 1819 B., 1824 B., 1826 B., 2118*a* B., 2202 B., Mountain 6—800 M.: n. 70, 71, 72, 168, 202 L., 204 L.

Antill., Amer. cont. trop. (Symb.).

Nephrolepis Schott.

Nephrolepis exaltata Schott Gen. Fil. (1834) ad t. 3; Millspaugh 468.

Aspidium exaltatum Sw. in Schrad. Journ. 1800. II (1801) 32; Gris. Fl. 688.

St. Eustatius: Quill: n. 137; Top of the Quill: n. 138, 141, 142, 143, 144; Gilboohill: n. 1125 B.

Saba: Mountain 800 M.: n. 1802 B., 2194 B., 2197 B.; Mountain near Hellsgate 600 M.: n. 2285 B.; Mountain: n. 62, 63, 64, 65, 66, 67; locality unknown: n. 172 L.

St. Croix ex Millspaugh.

Bermud., Antill., Amer. cont. trop, Afr. trop., Asia austro-orient., Polynes., Australia sept. (Symb.).

Diplazium Sw.

Diplazium semihastatum C. Christensen Index Filicum (1906) 239.

Asplenium bipartitum Spr. Syst. IV (1827) 85.

St. Eustatius: Top of the Quill: n. 100.

Cuba, Jamaica, Portorico. (Christensen 1906).

Diplazium striatum Presl. Tent. pterid. (1836) 114.

Asplenium striatum Linn. Spec. (1753) 1082; Gris. Fl. 686.

Saba: Mountain 800 M.: n. 1833 B., 2203 B., 181, 238, 239.

Antill., Amer. cont. trop. (Symb.).

Asplenium Linn.

Asplenium auritum Sw. in Schrad. Journ. 1800 II (1801) 52; Gris. Fl. 682.

W. I.: Suringar: n. 240.

Antill., Amer. cont. trop., Ins. afric. orient., India orient. (Symb.).

Asplenium cristatum Lam. Enc. 2. (1786) 310.

Asplenium rhizophorum Linn. *γ cicutarium* Sw.; Gris. Fl. 684.

St. Eustatius: Top of the Quill 400 M.: n. 332 B., 333 B.: inner slope of the Quill 350 M.: n. 419 B.; Bottom of the Quill 300 M.: n. 436 B., 451 B.; slope of the lower part of the Quill near Bengalen: n. 730 B.; Bengalen: n. 96, 97, 98; top of the Quill: n. 94; Quill: n. 106, 111, 112, 113, 114; locality unknown: n. 95.

Saba: Springbaygut: n. 2111 B.; Mount Paradis 300—400 M.: n. 3230 B.; Gainbygut: n. 6; Hellsgategut near Devilshand: n. 7; Mountain: n. 2, 3, 4, 8, 10.

Antill., Amer. cont. trop., Afr. trop. (Symb.).

Asplenium monanthes Linn. Mant. (1767) 130.

Saba: Marypointgut: n. 12.

Amer. trop., Ins. Hawaïi, Africa and Antlant. Ins. (Christensen 1906).

Asplenium obtusifolium Linn. Spec. (1753) 1080; Gris. Fl. 681.

St. Eustatius: Bottom of the Quill 300 M.: n. 441 B., 467 B.

Antill., Amer. cont. trop. (Symb.)

Asplenium pumilum Sw. Prodr. (1788) 129; Gris. Fl. 683.

Saba: Hellsgate to Marypoint: n. 2041 B.

St. Martin: Milldrumhill 300—400 M.: n. 3178 B., 3181 B.; Mount Paradis 300—400 M.: n. 3213*a* B.

Antill., from Mexico to Columbia. (Symb.).

Asplenium serratum Linn. Spec. (1753) 1079; Gris. Fl. 680.

St. Eustatius: slope of the Quill 350 M.: n. 387 B.; Bottom of the Quill 300 M.: n. 444 B., 450 B.; Quill: n. 179; Top of the Quill: n. 177, 178; locality unknown: n. 150.

Saba: locality unknown: n. 211 L.

Antill., Amer. centr. and austr., Ins. Societ. (Symb.).

Blechnum Linn.

Blechnum occidentale Linn. Syst. X ed. II (1759) 1322; Gris. Fl. p. 673; Millspaugh 469.

St. Eustatius: slope of the Quill 350 M.: n. 385 B.; inner slope of the Quill 350 M.: n. 1225 B.; Top of the Quill: n. 135; slope of the Quill: n. 78, 79, 136.

Saba: Bottom 200 M.: n. 1449 B.; Hellsgate: n. 1689 B.; Springbaygut: n. 2113 B.; 2114 B.; Mountain near Windward side 600 M.: n. 2168 B., 2172 B.; Mountain: n. 35; Mountain 6—800 M.: n. 23, 233; Peperpot: n. 25, 26; Crespeen—Rendezvous 400 M.: n. 34; Gainbygut: n. 24.

St. Martin: Marigotroad near Marigot: n. 2803 B.; Mount Paradis 300—400 M.: n. 3342 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Stenochlaena J. Sm.

Stenochlaena sorbifolia J. Sm. in Hook. Journ. of Bot. IV (1842) 149; Gris. Fl. 674.

St. Eustatius: Bottom of the Quill 300 M.: n. 470 B., 453 B., Top of the Quill: n. 242*a* B.; Quill: n. 130, 131, 132, 133; Boven: n. 80; Bengalen: n. 81.

Saba: Top of the Mountain: n. 221; locality unknown: n. 181 L.

Antill., Amer. cont. trop., Afr. trop., Asia austro-orient., Ins. Monsun., Polynes. (Symb.).

Hemionitis Linn.

Hemionitis palmata Linn. Spec. (1753) 1077; Gris. Fl. 678; Millspaugh 469.

St. Martin: Nakedboyhill 50—200 M.: n. 2716 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2893 B.; Milldrumhill 200—300 M.: n. 3118 B.

St. Croix ex Millspaugh.

Antill., from Mexico to Peru. (Symb.).

Neurogramme Lk.

Neurogramme calomelanos Diels in Engl.-Prantl Nat. Pflanzenfam. I. 4 (1899) 264.

Gymnogramme calomelanos Kaulf. Enum. Fil. (1824) 76; Gris. Fl. 679; Millspaugh 469.

St. Eustatius: in a garden in Oranjestad: n. 68 B.; top of the Quill 380 M.: n. 270 B., 314 B.; slope of the Quill 350 M.: n. 386 B.; slope of the Quill near Bengalen: n. 744 B.; in a garden near Glassbottle: n. 1208 B.; top of Pangahill: n. 128; seashore: n. 125; Boven: n. 126, 127, 129; Greatgut: n. 124; locality unknown: n. 140 G., 189 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1302 B.; 1367 B.; along the seashore near Forthbaylanding: n. 1649 B.; Saddle: n. 1659 B.; Mountain 800 M.: n. 1795 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2060 B., 2069 B.; Springbaygut: n. 2089 B.; seashore near Forthbaylanding: n. 2148 B.; Mountain near Windwardside 600 M.: n. 2167 B., 2179 B.; Ladderlanding: n. 232, 240; Greathill 200—400 M.: n. 18; Mountain: n. 167; Peperpot: n. 10; Crespeen-Rendez-vous: n. 17; locality unknown: n. 1473 B., 199 L.

I saw Neurogramme calomelanos also: near the Sulphurmines; Crespeenhill.

St. Martin: Milldrumhill 300—400 M.: n. 3177 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., Afr. trop., Samoa. (Symb.).

Chleilanthes Sw.

Cheilanthes microphylla Sw. Syn. Fil. (1806) 127; Gris. Fl. 667; Millspaugh 469.

St. Eustatius: along roads in Oranjestad: n. 943*a* B.; Cultuurvlakte; n. 118; Quill: n. 121; Oranjestad: n. 115.

Saba: between Bottom and Marypoint 100—200 M.: n. 1513 B.; seashore near Forthbaylanding: n. 1651 B.; Laddergut: n. 1996 B.; Bottom: n. 228.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Adiantum Linn.

Adiantum tenerum Sw. Prodr. (1788) 135; Gris. Fl. 666; Millspaugh 469. Maidenhair.

St. Eustatius: Mountain (dedit Mr. Falk): n. 104, 105, 106; Bengalen: n. 110; locality unknown: n. 109.

Saba: Paris 400 M.: n. 1373 B.; lower part of the Bottom Mountain 250 M.: n. 1412 B.; along roads between Bottom and Windwardside 200 M.: n. 1320 B.; Ladder: n. 229; Peperpot: n. 13; Greathill: n. 14, 15, 16; Gainbygut: n. 8.

St. Martin: along roads from Colebay to Simsonbay: n. 3247 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Pteris Linn.

Pteris biaurita Linn. Spec. (1753) 1076; Gris. Fl. 669.

Saba: Gut between Hellsgate and Masticgut 300—400 M.: n. 2066 B.; Springbaygut: n. 2112 B.; Mountain near Hellsgate 600 M.: n. 2283 B.; Peperpot: n. 30, 36, 37, 38; Gainbygut: n. 27, 28, 29.

Antill., Amer., Afr., Asia trop. (Symb.).

Lonchitis Linn.

Lonchitis hirsuta Linn. Spec. (1753) 1078.

Pteris laciniata Willd. Spec. Plant. V. 1 (1810) 397; Gris. Fl. 669.

Saba: Top of the Mountain 800 M.: n. 2218 B.

Antill., Americ. cont. trop. (Symb.).

Vittaria Sw.

Vittaria lineata Sw. in Schrad. Journ. 1800. II (1801) 72; Gris. Fl. 671.

St. Eustatius: Top of the Quill 400 M.: n. 335 B.; slope of the Quill 350 M.: n. 405 B.; top of the Quill: n. 157. 158.

Baham., Antill., Amer. cont. trop. untill Florida, Afr. trop. untill Cap, Asia austro-orient. untill Japon. (Symb.).

Heteropteris Fee.

cf. Paltonium Presl. (Christensen 1906).

Heteropteris lanceolata Fée ex Moore Ind. Fil. (1857) 343; Diels in Engl.-Prantl. Nat. Pflanzenfam. I. 4. (1899) 305 fig. 161 E.

Paltonium lanceolatum Pr. Epim. 156 (1849) 156. (Christensen 1906).

Taenitis lanceolata R. Br. Prodr. (1810) 154; Gris. Fl. 671; Millspaugh 469.

St. Eustatius: Top of the Quill 400 M.: n. 243 B., 316*a* B.; slope of the Quill near Bengalen 250 M.: n. 693 B.

St. Martin: Mount Paradis 300—400 M.: n. 3231 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. centr. (Symb.).

Polypodium Linn.

Polypodium aureum Linn. Spec. (1753) 1087; Gris. Fl. 698; Millspaugh 469.

St. Eustatius: along roads in Oranjestad: n. 531 B.; slope of the Quill near Bengalen 250 M.: n. 698 B.

Saba: Windwardside—Hellsgate: n. 1661 B.; lower part of the Bottom Mountain 300 M.: n. 1441 B.; Windwardside: n. 1948 B.; Mountain near Hellsgate 600 M.: n. 2287 B.; Quarter: n. 236.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2903 B.; Milldrumhill 300—400 M.: n. 3134 B.; Mount Paradis 300—400 M.: n. 3223 B., 3233 B., 3235 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop. (Symb.).

Polypodium brasiliense Poir. Enc. 5. (1804) 525.

Polypodium neriifolium Schkuhr Kr. Gew. I. 14. t. 15. (1806); Gris. Fl. 698.

St. Eustatius: Top of the Quill 400 M.: n. 291 B., 300 B., 321 B.; Top of the Quill 500 M.: n. 485 B., 83, 140; Quill: n. 134, 139.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1294 B.; Parishill 200—400 M.: n. 225, 226.

St. Martin: Milldrumhill 300—400 M.: n. 3144 B.

Amer. trop. (Christensen 1906.).

Polypodium crassifolium Linn. Spec. (1753) 1083; Gris. Fl. 703.

Saba: Mountain 800 M.: n. 2193 B.; 48, 49, 51; locality unknown: n. 61 L.

Antill., Amer. cont. trop. (Symb.).

Polypodium loriceum Linn. Spec. (1753) 1086; Gris. Fl. 698.

Saba: Mountain 800 M.: n. 2191 B., 232, 237.

Antill., Amer. cont. trop. (Symb.).

Polypodium lycopodioides Linn. Spec. (1753) 1082; Gris. Fl. 702. Bastard catclaw.

St. Eustatius: Top of the Quill 380 M.: n. 259 B., 266 B., 408 B.; slope of the Quill near Bengalen 200 M.: n. 692 B.; Signalhill 200 M.: n. 1051 B.; Slope of the Quill: n. 151, 153; Quill: n. 145, 152; Bengalen: n. 146, 147; locality unknown: n. 179 G., 261 H.

Saba: Paris 400 M.: n. 1374 B., 54; between Bottom and Marypoint 100—200 M.: n. 1499 B.; Mountain 600 M.: n. 1743 B., 57; Windwardside: n. 1941 B.; Springbaygut: n. 2094 B.; Mountain near Hellsgate: n. 2282 B.; Peporpot: n. 55; Crespeen—Rendezvous 400 M.: n. 60; locality unknown: n. 56, 49 L.

St. Martin: Nakedboyhill 200—260 M.: n. 2722 B., 2724 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2902 B.; Mount Paradis 300—400 M.: n. 3227 B., 3229 B.; Mount Paradis 200—300 M.: n. 3318 B.; Centryhill: n. 75.

Antill., Amer. cont. trop., Afr., Java, Ins. Sandw. (Symb.).

Polypodium phyllitidis Linn. Spec. (1753) 1083; Gris. Fl. 702; Millspaugh 470.

St. Eustatius: Top of the Quill 400 M.: n. 235 B., 320 B.; inner slope of the Quill 350 M.: n. 462 B.; Top of the Quill 500 M.: n. 484 B.; Slope of the Quill near Bengalen 250 M.: n. 704 B., 705 B.; Slope of the Quill: n. 159; Quill: n. 101, 160, 161; Bengalen: n. 162; locality unknown: n. 183 G., 257 H.

Saba: Windwardside—Hellsgate: n. 1667 B.; Springbaygut: n. 2109 B.; Mountain 400—800 M.: n. 52; Gainbygut: n. 47.

St. Martin: Milldrumhill 300—400 M.: n. 3138 B.; French frontier: n. 74.

St. Croix ex Millspaugh.

Baham., Antill., from Florida until Bras. (Symb.).

Polypodium piloselloides Linn. Spec. (1753) 1080; Gris. Fl. 701; Millspauch 470.

Lepicystis piloselloides Diels in Engl.-Prantl. Nat. Pflanzenfam. I. 4 (1899) 323.

Saba: Boobyhill 300 M.: n. 1581 B.; Mountain 800 M.: n. 1804 B.; St. Giles: n. 1866 B.; Mountain near Windwardside 600 M.: n. 2171 B.; Crispeen-Rendez-vous 400 M.: n. 61, 235; Hellsgategut near Devilshand: n. 53.

St. Martin: Mount Paradis 300—400 M.: n. 3218 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Polypodium plumula H. B. Willd. Sp. V (1810) 178.

St. Eustatius: Top of the Quill 400 M.: n. 222 B., 237 B., 311 B.; slope of the Quill 350 M.: n. 406 B.; slope of the Quill near Bengalen 250 M.: n. 694 B.; slope of the Quill: n. 89, 90; Quill: n. 85, 86, 88; Top of the Quill: n. 37; Bengalen: n. 84.

Saba: Crispeen: n. 68.

Florida, Amer. trop. (Christensen 1906).

Polypodium serrulatum Mett. Fil. hort. Lips. (1856) 30.
Xiphopteris serrulata Kaulf. Enum. (1824) 85; Gris. Fl. 703.
Saba: Mountain 800 M.: n. 1834 B.
Antill., Amer. cont. trop., Afr., Ins. Sandw. (Symb.).

Polypodium squamatum Linn. spec. (1753) 1086.
Lepicystis squamata J. Sm. Brit. and For. Ferns (1866) 80.
St. Eustatius: slope of the Quill near Bengalen 50—200 M.: n. 643 B., 663 B.
Saba: along roads between Bottom and Windwardside 200 M.: n. 1306 B.; Mountain 600 M.: n. 1771 B.; Laddergut 0—200 M.: n. 2021 B.; Paris: n. 32; Peperpot: n. 22; Mountain: n. 9; Gainbygut: n. 21; Laddergut: n. 31; Hellsgategut: n. 33.
St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2856 B.: Mount Paradis 300—400 M.: n. 3232 B.; French frontier: n, 77.
Antill., Amer. cont. from. Mexico to Peru. (Symb.).

Polypodium trichomanoides Sw. Prodr. (1788) 131; Gris. Fl. 701.
Saba: Mountain 800 M.: n. 1817 B., 1835 B., 1837 B.
Antill., Amer. austr., Ascencion, Asia austro-orient. (Symb.).

Elaphoglossum Schott.

Elaphoglossum conforme Schott. Gen. ad. t. 14 (1834).
Acrostichum conforme Sw. Syn. 10 192 t. 1 f. 1 (1806); Gris. Fl. 677.
St. Eustatius: Top of the Quill 400 M.: n. 302 B., 327 B., 363 B., 384 B., 180; locality unknown: n. 1147*a* B.
Saba: Mountain 800 M.: n. 1820 B., 50.
Amer. trop. (Christensen 1906).

Elaphoglossum latifolium J. Sm. in Hook. Lond Journ. Bot. I (1842) 197.
Acrostichum latifolium Sw. Prodr. (1788) 128; Gris. Fl. 677.
Saba: Mountain 800 M.: n. 2208 B.
Antill., Amer. cont. trop. (Symb.).

Elaphoglossum petiolatum Urb. in Symbolae Antillanae V (1903) 61.
Acrostichum viscosum Vent. ap. Sw. Syn. Fil. (1806) 193; Gris. Fl. 676.
St. Eustatius: Top of the Quill: n. 192*a* B., 248*a* B.
Antill., Amer. cont. trop. until Argentinia, Africa trop., Asia austro-orient., Ins. Monsun. (Symb.).

Gleicheniaceae.

Gleichenia J. E. Smith.

Gleichenia bifida Spreng. Syst. IV. I (1827) 27.
Mertensia furcata Gris. Fl. W. I. (1861)651 (non Spreng.). (Symb.).
Saba: Mountain 800 M.: n. 2227 B., 69.
Antill., Amer. cont. trop. (Symb.).

Ophioglossaceae.

Ophioglossum Linn.

Ophioglossum reticulatum Linn. Spec. (1753) 1063; Gris. Fl. 649.
Saba: Mountain 6—800 M.: n. 73.
Antill., Amer. cont. trop., Africa. (Symb.).

Lycopodiaceae.

Lycopodium Linn.

Lycopodium taxifolium Sw. Prodr. (1788) 138; Gris. Fl. 647.
St. Eustatius: Top of the Quill: n. 479*a* B.
Saba: Top of the Mountain: n. 2200*a* B., 27.
Antill., Amer. cont. from Mexico to Brasil. austr. (Symb.).

Lycopodium verticillatum Linn. fil. Suppl. (1781) 448; Gris. Fl. 647.
Saba: Mountain 650 M.: n. 21, 26.
Antill., Amer. cont. trop., Afr. austr. et orient., Polynesia. (Symb.).

Psilotaceae.

Psilotum Sw.

Psilotum nudum Gris. Veg. Kar. (1857) 130.
Psilotum triquetrum Sw. in Schrad. Journ. 1800 II (1801) 109; Gris. Fl. 648.
Saba: Crespeen-Rendez-vous: n. 1761*a* B., 30.; Paris: n. 20; Greathill: n. 15; Mountain: n. 25.
Baham., Antill., Trop. countries of both hemisph. (Symb.).

Selaginellaceae.

Selaginella Spring.

Selaginella flabellata Spring Mon. Lyc. (1849); Gris. Fl. 646.
Saba: Mountain: n. 1778*a* B., 22, 24, 29, 214 L.
Antill., Amer. merid. sept. (Pulle.)

Selaginella substipitata Spring. Mon. Lyc. (1849); Gris. Fl. 645.
Saba: Mountain 6- 800 M.: n. 1813*a* B., 2206*a* B., 2221*a* B., 2227*a* B., 23, 28.
Antill., Panama to Brasil. and Peru. (Gris. Fl.).

Gymnospermae.

6. Pinaceae.

45. Juniperus Linn.

Juniperus bermudiana Linn. Spec. (1753) 1039.
Cultivated [Bermudas, Barbados.] (Ind. Kew.).

Juniperus virginiana Linn. Spec. (1753) 1039.
Cultivated [Amer. septentr.] (Ind. Kew.).

Monocotyledoneae.

11. Potamogetonaceae.

60. Cymodocea C. H. König.

Cymodocea manatorum Aschers. in Sitzungsber. Ges. naturforsch. Freunde, Berlin (1868) 19; Duss 473; Millspaugh 470.
St. Martin: near Fort Amsterdam: n. 38; Simsonbay lagoon: n. 3260 B.

Suringar saw the Cymodocea manatorum also in Simsonbay lagoon.

St. Croix ex Millspaugh.
Bermud., Key West, Antill. (Symb.).

19. Gramineae.

102. Zea Linn.

Zea Mays Linn. Spec. (1753) 971.
Cultivated. [Amer. austr. Peru.?] (Symb.).

111. Saccharum Linn.

Saccharum officinarum Linn. Spec. (1753) 54.
Cultivated. [Asia austro-orient.?] (Symb.).

134. **Andropogon** Linn.

Andropogon bicornis Linn. Spec. (1753) 1046; Duss 530.
Anatherum bicorne Beauv. agrost. (1812) 15; Gris. Fl. 559.
Saba: Greathill: n. 214; between Bottom and Marypoint 300 M.: n. 1480*a* B.
Antill., Amer. cont. trop., Teneriffa. (Symb.).

Andropogon contortus Linn. Sp. (1753) 1045; Duss 528.
Andropogon secundus Willd. ex Nees. Agrost. Bras. (1829) 364. Gris. Fl. 558.
St. Eustatius: Near Boven 200 M.: n. 1238 B., 1239 B.
Domingo, Haïti, Antigua, Guadeloupe. (Herb. Krug et Urban.).

Andropogon glomeratus Britton, Stern. et Poggenb. Prel. Cat. (1888) 67.
Andropogon macrouros Michx. Flor. bor. amer. I (1803) 56.
Anatherum macrourum Gris. Flor. W. I. (1864) 559.
Saba: Mountain near Windwardside 600 M.: n. 2169 B.
Baham., Antill., Amer. centr. and sept. (Symb.).

Andropogon Schoenanthus Linn. Spec. (1753) 1046.
Cultivated. [Ind. orient., Afr. trop., Asia.] (Hackel 1859). Lemongrass.

Andropogon sorghum Brot. Flor. lusit. I (1804) 88.
Cultivated. Creole corn, Guinea corn.

Andropogon zizanioides Urb. Symb. Ant. IV. (1903) 79.
Andropogon squarrosus Linn. fil. Suppl. (1781) 433; Duss 529.
Vetiveria arundinacea Griseb. Flor. W. I. (1864) 559.
St. Eustatius: locality unknown: n. 287 G.
Antill., Bras., from Ind. orient.? (Symb.).

140. **Anthephora** Schreb.

Anthephora hermaphroditica O. Ktze. Rev. II (1891) 759.
Anthephora elegans Schreb. Beschr. Gräs. III (1810) 105 t. 44: Gris. Fl. 556; Duss 527; Millspaugh 471.
St. Eustatius: Along roads in Oranjestad: n. 559 B., 1094 B., 1107 B.
Saba: Along roads between Bottom and Windwardside 200 M.: n. 1342 B.; Ladder: n. 376.
St. Martin: Guanabay: n. 2427 B.
St. Croix ex Millspaugh.
Antill., Curaçao, Aruba, Amer. cont. trop. (Symb.).

143. **Tragus** Hall.

Tragus racemosus Haller. Hist. Stirp. Helv. II (1768) 203.

Lappago aliena Spreng. Neue Entd. III (1822) 15; Gris. Fl. 557.

Nazia aliena Millsp. in Millspaugh 471.

St. Eustatius: Between Oranjestad and Fort de Wind on the top of the Cliff: n. 707 B.; Hill near Concordia: n. 946 B.; near White Wall: n. 1259 B.

Saba: St. Giles: n. 1870 B.

St. Martin: From Filipsburg to Guanabay: n. 2367 B.; Nakedboyhill 50—200 M.: n. 2676 B.; from Filipsburg to Point blanche: n. 3404 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Curaçao, Aruba, trop. and subtrop. countries of both hemisph. (Symb.).

161. **Paspalum** Linn.

Paspalum conjugatum Bergius in Act. helv. VII (1772) 129 t. 8; Gris. Fl. 541; Duss 591; Millspaugh 471. Crabgrass.

Saba: Between Bottom and Marypoint 100—200 M.: n. 1470 B.; Mountain 600 M.: n. 1776 B.; Gainbygut: n. 101.

St. Martin Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2907 B.; Mount Paradis 300—400 M.: n. 3242 B.

St. Croix ex Millspaugh.

Antill., trop. countries of both hemisph. (Symb.).

Paspalum fimbriatum H. B. K. Nov. Gen. I (1815) 93 t. 28; Gris. Fl. 542; Duss 511; Millspaugh 472.

St. Eustatius: Along roads in Oranjestad: n. 1109 B.; along roads near Glassbottle: n. 1213 B.; Slope of the Quill: n. 963.

Saba: Along roads between Bottom and Windwardside 200 M.: n. 1290 B.; between Bottom and Marypoint 100—200 M.: n. 1509 B.; along roads 200—300 M.: n. 1711 B.; Laddergut 0—200 M.: n. 2017 B.; Peperpot: n. 1018; Crespeen-Rendez-vous: n. 988.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Amer. austr. (Symb.).

Paspalum hemisphaericum Poir. in Lam. Enc. V (1804) 31.

Paspalum panniculatum Willd. Spec. plant. I (1798) 331; (non Linn.) Gris. Fl. 543; Duss 512. (Symb.).

St. Eustatius: Along roads in Oranjestad: n. 553 B.; slope of the Quill 200 M.: n. 879 B.; slope of the Quill on the side of White Wall 200 M.: n. 1167 B.

Saba: Between Bottom and Marypoint 100—200 M.: n. 1525 B.; Laddergut: n. 2009 B.; pastureground on Middle Island: n. 2247.

St. Martin: near Mulletpond: n. 2763 B., 2782 B.; in pasture ground near Bellevue: n. 2827 B.; between Belvedere and Oysterpond: n. 3068 B.; Lowlands: n. 3281 B.

Anguilla Boldingh.

Antill., warmer parts of Amer. (Symb.).

165. **Isachne** Pr. Br.

Isachne arundinaceae Gris. Fl. W. I. (1864) 553; Duss 523.

Saba: Top of the Mountain: n. 2196 B.

Jamaica, Portorico, St. Kitts, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada. (Symb.).

Isachne rigens Trin. Gram. Panic. (1836) 252; Gris. Fl. 553; Duss 524.

Saba: Top of the Mountain 800 M.: n. 1386.

Antill., Venezuela. (Gris. Fl.).

166. **Panicum** Linn.

Panicum brevifolium Linn. Spec. (1753) 59; Gris. Fl. 552; Duss 522.

Saba: Lower part of the Bottom Mountain 300 M.: n. 1433 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2031 B.; Springbaygut: n. 2100 B., 2122 B.

Antill., Cuba and Mexico to Bras. (Gris. Fl.).

Panicum colonum Linn. Syst. X ed. II (1759) 870; Gris. Fl. 545; Duss 515; Millspaugh 472.

Saba: Middle Island: n. 1613 B., 1613*a* B.

St. Martin: Cul de Sac: n. 2614 B.; in pasture ground near Bellevue: n. 2841 B.; Centry hill: n. 606; Colebayhill: n. 207.

St. Croix ex Millspaugh.

Antill., Curaçao, trop. and warmer countries of both hemisph. (Symb.).

Panicum diffusum Sw. Prodr. (1788) 23; Duss 518.

St. Eustatius: Gut near Fort de Wind 50 M.: n. 839 B.

St. Martin: from Filipsburg to Guanabay: n. 2379 B.; Marigotroad: n. 2808 B.; in orchard near Bellevue: n. 2838 B.; Mountain between

Mont des Accords and Centry hill: n. 2864 B.; along roads from Colebayhill to Simsonsbay: n. 3015 B.; between Belvedere and Oysterpond: n. 3077 B.; Tintamarre: n. 3394 B.

Anguilla Boldingh.

St. Croix (Symb.).

Cuba, Jamaica, Hispaniola, St. Thomas, St. Jan, St. Barthélemy, Antigua, Guadeloupe, Martinique. (Symb.).

Panicum divaricatum Linn. Syst. X ed. II (1799) 871; Gris. Fl. 551; Duss 521; Millspaugh 472. Cane grass, wild cane.

St. Eustatius: Top of the Quill 400 M.: n. 238 B.; inner slope of the Quill 350 M.: n. 417 B.; slope of the Quill near Bengalen 150 M.: n. 676 B.; slope of the Quill near Bengalen 100 M.: n. 750 B.; seashore near White Wall: n. 850 B.; from Little Mountain to Venusbay: n. 990 B.; slope of the Quill: n. 584; Sugarloaf: n. 564 B.; Quill: n. 194 G., 234 H.

Saba: between Bottom and Marypoint 400 M.: n. 1484 B.; gut between Hellsgate and Masticgut: n. 2070 B.; Peperpot: n. 561, 589; Rendez-vous 400 M.: n. 593; locality unknown: n. 303 L.

St. Martin: Marigothill — Marigot 0—200 M.: n. 2645 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2896 B.; Milldrumhill: n. 3050 B.; near Bellevue: n. 3356*a* B.; Centryhill: n. 559; near the French frontier: n. 568, 586.

I saw Panicum divaricatum in St. Martin also on Mount Paradis 300—400 M, hills on the northern side of Cul de Sac and Nakedboyhill 100—200 M.

St. Croix ex Millspaugh.

Key Ins., Baham., Antill., Amer. cont. trop. (Symb.).

Panicum fuscum Sw. Prod. Veg. Ind. Occ. (1788) 23; Gris. Fl. 546; Duss 516; Millspaugh 472.

St. Eustatius: in deserted plantations at the seashore near Bengalen: n. 598 B.; slope of the lower part of the Quill near Bengalen: n. 724 B.; along roads in Oranjestad: n. 1095 B.; Cultuurvlakte: n. 610.

Saba: between Bottom and Marypoint 100—200 M.: n. 1543 B., 1562 B.; Boobyhill: 1583 B.; locality unknown: n. 147 bis L.

St. Martin: Nakedboyhill: n. 2699 B.; along roads near Bethlehem: n. 2935 B.

St. Croix ex Millspaugh.

Jamaica. (Ind. Kew.)

Panicum geminatum Forsk. Flor. aeg. arab. (1775) 18.

Panicum paspaloides Pers. Syn. I (1805) 81; Gris. Fl. 545; Duss 514; Millspaugh 473.

St. Martin: between Belvedere and Oysterpond: n. 3069 B.

Anguilla Boldingh.

St. Croix ex Millspaugh 473.

Florida, Bermud., Baham., Antill., Aruba, trop countries of both hemisp. (excl. Australia.) (Symb.).

Panicum insulare G. F. W. Mey. Prim. Esseq. (1818) 60.

Tricholaena insularis Gris. Flor. W. I. (1864) 557.

Panicum leucophaeum H. B. K. Nov. Gen. I (1815) 97; Duss 522.

Syntherisma insularis Millsp. in Millspaugh 437.

Longgrass.

St. Eustatius: in a garden in Oranjestad: n. 67 B., 1063*a* B.; along roads in Oranjestad: n. 575 B., 1070 B., 1096 B.; slope of the lower part of the Quill near Bengalen: n. 723 B.; slope of the Quill 300 M.: n. 881 B.; along roads near English Quarter: n. 1000 B., 770; near Boven: n. 1251 B.: Cultuurvlakte: n. 771; Mountain near Bengalen: n. 772.

Saba: Boobyhill 300 M.: n. 1579 B.; Laddergut 200 M.: n. 2003 B.; Ladder: n. 1195; Greathill: n. 1206; locality unknown: n. 294 L.

I saw Panicum insulare in great quantities also: Gut between Hellsgate and Masticgut; Crespeenhill; Flat point.

St. Martin: from Filipsburg to Guanabay: n. 2397 B.; lower part of the Milldrumhill: n. 3175 B.; Mount Paradis 300—400 M.: n. 3331 B.

I also saw Panicum insulare: Nakedboyhill; Marigothill—Marigot.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida austr., Baham., Amer. cont. from Texas to Patagonia. (Symb.).

Panicum maximum Jacq. Ic. pl. rar. I (1781) 2, t. 13; Gris. Fl. 549; Duss 519; Millspaugh 472. Guineagrass.

St. Eustatius: in a garden in Oranjestad: n. 1063 B.; slope of the Quill: n. 1404; Cultuurvlakte: n. 1402.

Saba: Boobyhill 300 M.: n. 1580 B.; Bottom: n. 1411; locality unknown: n. 240 L.

St. Martin: Top of the hills on the northern side of Cul de Sac: n. 2988 B.

I also saw Panicum maximum, and in great quantities: from Bethlehem to Cul de Sac, Top of Mount Paradis 400 M.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop., Afr. trop. and subtrop. (Symb.).

Panicum molle Sw. Prodr. (1788) 2; Gris. Fl. 547; Duss 518.

Panicum barbinode Trin. in Millspaugh 472. Paragrass,

St. Eustatius: Slope of the Quill near Glassbottle: n. 1201 B.

I did not collect this plant in Saba, but from my notes it appears that I saw the plant cultivated in Windwardside.

I do not remember that I saw this plant in St. Martin, but I believe that, as it is cultivated in St. Eustatius and Saba, I may not hold myself entitled to say that Panicum molle might not be found in St. Martin as well.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Curaçao, Amer. cont. trop. (Symb.).

Panicum prostratum Lam. Ill. I (1791) 171: Gris. Fl. 546: Duss 515; Millspaugh 473. Runninggrass.

St. Martin: Nakedboyhill 50—200 M.: n. 2698 B.; between Belvedere and Oysterpond: n. 3071 B.; Mount Paradis 150—400 M.: n. 3190 B., 200—300 M.: n. 3315 B.; lowerpart of Milldrumhill: n. 3165 M.: n. 3165 B.; Tintamarre: n. 3377 B., 3383 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Curaçao, trop. countries of both hemisph. (Symb.).

Panicum sanguinale Linn. Spec. (1753) 57: Duss 522.

Digitaria marginata Lk. Enum. I (1821) 102 et *Digitaria setigera* Roth. ap. R. et Sch. Syst. II (1817) 474?: Gris. Fl. 544.

Syntherisma sanguinale Dulac. Flor. Hautes-Pyrén. (1867) 77: Millspaugh 473. Haygrass.

St. Eustatius: along roads in Oranjestad: n. 530 B., 1097 B.; Bengalen: n. 614 B., 748 B.; slope of the Quill near Bengaleu 50 M.: n. 662 B.; slope of the Quill: n. 1860; locality unknown: n. 2600.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1326 B.; lower part of the Bottom Mountain 250 M.: n. 1430 B.; between Bottom and Marypoint 100—200 M.: n. 1560 B.; top of the Cliff near the seaside of Boobyhill: n. 1604 B.; Laddergut 0—200 M.: n. 2013 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2068 B.; locality unknown: n. 2603, 273 L.

St. Martin: from Filipsburg to Guanabay: n. 2363 B.; along the saltpond near Filipsburg: n. 2450 B.; from Filipsburg to Belvedere: n. 2599 B.; in pastureground near Bellevue: n. 2829 B.; top of the hills on the northern side of Cul de Sac 200—300 M.: n.

2987 B.; pastureground near Belvedere: n. 3051 B.; lower part of Milldrumhill: n. 3114 B.; Lowlands: n. 3289 B.; locality unknown: n. 2601.

I also saw Panicum sanguinale in Tintamarre.

Anguilla Boldingh.
St. Croix ex Millspaugh.
Antill., trop. countries of both hemisph. (Symb.).

167. **Ichnanthus** Beauv.

Ichnanthus pallens Munro ex Benth. Fl. Hongk. (1861) 414.
Panicum pallens Sw. Prod. Veg. Ind. Occ. (1788) 23; Gris. Fl. 550; Duss 520.

Saba: Top of the Mountain: n. 1794 B., 2213 B.; locality unknown: n. 206 L.

St. Martin: locality unknown: n. 3430[a] B.
Antill., Guiana Gallica. (Herb. Krug et Urban.).

169. **Oplismenus** Beauv.

Oplismenus setarius R. et Sch. Syst. II (1817) 481; Duss 514.
Orthopogon setarius Spreng. Syst. I (1825) 306; Gris. Fl. 545. comp. Millspaugh 473. Running mountaingrass.

St. Eustatius: inner slope of the Quill 350 M.: n. 414 B.; Quill: n. 260 H., 274 G.

Saba: Lower part of the Bottom Mountain 250 M.: n. 1408 B.; Bottom 200 M.: n. 1453 B.; Boobyhill 350 M.: n. 1600 B.; Mountain near Windwardside 600 M.: n. 2182 B.; locality unknown: n. 53 L.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2643 B.

I also saw Oplismenus setarius near Bellevue under old Mangifera trees and on the hill between Mont des Accords and Centryhill.

Anguilla Boldingh.
St. Croix ex Millspaugh.
Bermud., Antill., Amer. cont. trop, Asia trop. (Symb.).

171. **Setaria** Beauv.

Setaria glauca Beauv. Agrost. (1812) 51; Gris. Fl. 554; Duss 524.
Chaetochloa glauca (Linn.) Scribn. in U. St. Dep. of Agr. Div. of Agrost. Bull. n. 4 (1897) 39; Millspaugh 473.

St. Eustatius: in a garden in Oranjestad: n. 523 B.; along roads in Oranjestad: n. 1108 B.; slope of the Quill: n. 435.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1289 B., 1328 B.; Mountain 600 M.: n. 1772 B.; locality unknown: n. 133 L.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., trop. and temp. countries of both hemisph. (Symb.).

Setaria setosa Beauv. Agrost. (1812) 51; Gris Fl. 555; Duss 525.

Chaetochloa setosa (Sw.) Scribn. in U. S. Dep. Agr. Div. Agrost. Bull. 4 (1897) 37; Millspaugh 473.

St. Eustatius: Slope of Signalhill: n. 1054 B.; along roads in Oranjestad: n. 1130 B.; slope of Signalhill: n. 451; seashore: n. 386, 389; along roads in Oranjestad: n. 452; locality unknown: n. 278 G.

Saba: Top of the Cliff near the seaside of Boobyhill: n. 1608 B.; Mountain 800 M.: n. 1812 B.; Bottom: n. 1857 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2064 B.

St. Martin: Nakedboyhill 50—200 M.: n. 2688 B., 2694 B.; between Belvedere and Oysterpond: n. 3070 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Setaria viridis Beauv. Agrost. (1812) 51; Gris. Fl. 554.

St. Martin: from Filipsburg to Guanabay: n. 2404 B.

Jamaica, Europa and Asia sept. (Gris. Fl.).

174. **Cenchrus** Linn.

Cenchrus tribuloides Linn. Spec. (1753) 1050; Gris. Fl. 556; Duss 526. Burrgrass.

St. Eustatius: Slope of the lower part of Signalhill: n. 109 B.; slope of the Quill near Bengalen 100 M.: n. 673 B.; Fort de Wind: n. 802 B.; along roads near Glassbottle: n. 863 B.; lower part of the hills near Concordia: n. 984 B.; along roads near Bengalen: n. 1191 B.; locality unknown: n. 249 G., 265 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1283 B.; between Bottom and Marypoint 100—200 M.: n. 1539 B., 1563 B.; along roads: n. 1710 B.; Ladder: n. 1372.

I also saw Cenchrus tribuloides in the gut between Hellsgate and Masticgut.

St. Martin: from Filipsburg to Guanabay: n. 2402 B.; Colebay (coll. George): n. 2518 B.; near Mulletpond: n. 2758 B., 2775 B.; in pasture ground near Bellevue: n. 2830 B.; along roads near Bethlehem: n. 2932 B.; Tintamarre: n. 3385 B.

I also saw Cenchrus tribuloides: Top of Mount Paradis 400 M.; Nakedboyhill.

Anguilla Boldingh.

Bermud., Baham., Antill., Aruba, Bonaire, Amer. cont. trop. (Symb.).

175. **Pennisetum** L. Cl. Rich.

Pennisetum setosum Rich. in Pers. Syn. I (1805). 72; Gris. Fl. 555; Duss 525.

St. Eustatius: Slope of the Quill: n. 241.

Trop. countries of both hemisph. (Ind. Kew.).

186. **Pharus** Linn.

Pharus glaber H. B. K. Nov. Gen. I (1815) 196; Gris. Fl. 536; Duss 505; Millspaugh 474.

St. Eustatius: Top of the Quill 400 M.: n. 330 B.; inner slope of the Quill 350 M.: n. 413 B., 415 B., 1221 B.; Bottom of the Quill 300 M.: n. 908 B.; slope of the Quill: n. 1380; Quill: n. 1377, 1385, 1379; Bengalen: n. 1382; locality unknown: n. 1381; Quill: n. 225 G.

Saba: Boobyhill 300 M.: n. 1573 B.; 350 M.: n. 1613 B.; locality unknown: n. 34 L.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2858 B.

St. Croix ex Millspaugh.

Antill., Amer. austr. (Symb.).

208. **Aristida** Linn.

Aristida americana Linn. Syst. X ed. II (1759) 879; Gris. Fl. 534; Duss 503.

Bouteloua juncifolia Lag. Gen. et Spec. nov. (1816). 5.

Bouteloua litigosa Lag. Gen. et Spec. nov. (1816). 5. Millspaugh 475. Mulegrass.

St. Eustatius: between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 784 B.; gut near Fort de Wind: n. 829 B.; slope of the Quill: n. 1043, 1055, 1079; near Sugarloaf: n. 1084; locality unknown: n. 215 H.

Saba: Paris 400 M.: n. 1372 B.; along the Forthgut 150—200 M.: n. 1631 B.; along the seashore near Forthbaylanding: n. 1648 B., 2147 B.

St. Martin: Lowlands: n. 3275 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Bonaire, Curaçao, Aruba, Amer. cont. trop. (Symb.).

230. **Sporobolus** R. Br.

Sporobolus indicus R. Br. Prodr. I (1810) 170; Gris. Fl. 533; Duss 503; Millspaugh 474. Lizardgrass.

Saba: Paris 400 M.: n. 1376 B.; between Bottom and Marypoint 100—200 M.: n. 1505 B.; Boobyhill 300 M.: n. 1618 B.; St. Johns 250 M.: n. 1730 B.; Windwardside: n. 1916 B.; Rendezvous 400 M.: n. 725.

St. Martin: Along roads from Marigot to Grande Case: n. 3356 B.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Amer. sept., media, austro-occid., Afr., Australia. (Symb.).

Sporobolus virginicus Kth. Rév. Gram. I (1823) 67; Gris. Fl. 533; Duss 503; Millspaugh 474.

St. Eustatius: Seashore near Oranjestad: n. 12 B., 18 B.; seashore near English Quarter: n. 1008 B.; near Boven 200 M.: n. 1236 B.; near White Wall: n. 1261 B.; Concordiabay: n. 563; Turtlebay: n. 566; Pastureground on the slope of the Quill: n. 305; White Wall: n. 302, 315.

Saba: Ladderlanding: n. 562; Paris: n. 1376 B.; Laddergut 50 M.: n. 1975 B.

St. Martin: Along the Saltpond near Filipsburg: n. 2239 B., 2339*a* B., 2446 B., 2448 B.; Colebay (Coll. George): n. 2507 B.; Fort Willem: n. 2800 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2905 B.; in pastureground near Colebay: n. 3024 B.; between Belvedere and Oysterpond: n. 3067 B.; Lowlands: n. 3276 B.; Fort Amsterdam: n. 300.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Aruba, Amer. cont., Afr. trop., Australia, Ins. Pacif. (Symb.).

282. **Cynodon** Pers.

Cynodon dactylon Pers. Syn. I (1805) 85; Gris. Fl. 540; Duss 509; Millspaugh 474. Bahamagrass.

St. Eustatius: Along roads in Oranjestad: n. 1061 B.; slope of the Quill near Glassbottle: n. 1200 B.

St. Martin: Pastureground near Belvedere: n. 3050 B.; pastureground between Bellevue and Oysterpond: n. 3084 B.; along roads from Grande Case to Marigot: n. 3093 B.

St. Croix ex Millspaugh.

This grass as I was told was introduced by Mr. Every from St. Martin

into St. Eustatius; in St. Eustatius it is cultivated on a very small scale, but in St. Martin I saw many pieces of pastureground that consisted chiefly of Cynodon dactylon.

Bermud., Baham., Antill., Curaçao, trop. and warmer countries of both hemisph. (Symb.).

288. **Chloris** Sw.

Chloris ciliata Sw. Prod. Veg. ind. occ. (1788) 25; Gris. Fl. 539; Duss 508; Millspaugh 474.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2877 B.

St. Croix ex Millspaugh.

Antill., Mexico. (Gris Fl.).

Chloris paraguaiensis Stend. Gram. (1855) 204.

Chloris barbata Sw. Flor. I (1797) 200; Gris. Fl. 549; Duss 508.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1299 B.; along the seashore near Forthbaylanding: n. 1644 B.; along roads 200—300 M.: n. 1712 B.

St. Martin: Cul de Sac: n. 2617 B.; along roads in Princequarter: n. 2913 B.

St. Croix (Symb.).

Baham., Antill., trop. countries of both hemisp. (Symb.).

Chloris radiata Sw. Prodr. (1788) 26; Gris. Fl. 539; Duss 507; Millspaugh 475.

Saba: Mountain 600 M.: n. 1777 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop. (Symb.).

304. **Eleusine** Gärtn.

Eleusine indica Gärtn. Fruct. I (1788) 8; Gris. Fl. 540; Duss 508; Millspaugh 475. Dutchgrass.

St. Eustatius: along roads in Oranjestad: n. 554 B.; in a garden near Glassbottle: n. 1211 B.; in a garden in Oranjestad: n. 1278 B.; Cultuurvlakte: n. 786; locality unknown: n. 264 G., 237 H.

Saba: lower part of the Bottom Mountain 250 M.: n. 1390 B.; Windwardside: n. 1890 B., 1917*a* B.; Ladderigut 0—200 M.: n. 2014 B.; Bottom: n. 785; locality unknown: n. 23 L.

St. Martin: Colebay (Coll. George): n. 2521 B.; Marigothill—Marigot 0—200 M.: n. 2655 B.; in pastureground near Bellevue: n. 2823 B.; in pastureground between Belvedere and Oysterpond: n. 3086 B.

I also saw Eleusine indica in Tintamarre.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Bonaire, Curaçao, trop. and warmer countries of both hemisph. (Symb.).

305. **Dactyloctenium** Willd.

Dactyloctenium aegyptium Willd. Enum. Hort. Berol. (1809) 1029; Gris. Fl. 540; Duss 508; Millspaugh 475.

Eleusine aegyptiaca Desf. Flor. Atl. I (1798) 85.

St. Eustatius: seashore near Oranjestad: n. 39 B.; White Wall: n. 820 B., 1260 B.

Saba: between Bottom and Marypoint 100—200 M.: n. 1514 B.; along the seashore near Forthbaylanding: n. 1647 B.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2656 B.; in pastureground near Colebay: n. 3023 B.; Centryhill: n. 654.

St. Croix ex Millspaugh.

Baham., Antill., Bonaire, Curaçao, Aruba, trop. and warmer countries of both hemisph. (Symb.).

307. **Leptochloa** Beauv.

Leptochloa filiformis Beauv. Agrost. (1812) 71; Duss. 507.

Leptochloa mucronata Kth. Rév. Gram. I (1829) 91; Gris. Fl. 537; Millspaugh 475.

St. Martin: Boobyhill 300 M.: n. 1616 B.

St. Croix ex Millspaugh.

Bermud., Antill., Curaçao, Amer. sept., Nova Granata, Asia and Afr. trop. (Symb.).

Leptochloa virgata Beauv. Agrost. (1812) 71; Gris. Fl. 538; Duss 507; Millspaugh 475.

St. Eustatius: Lower part of the slope of the hills near Concordia: n. 940 B.; near Boven: n. 1250 B.

Saba: between Bottom and Marypoint 100—200 M.: n. 1530 B.; Mountain 1751 B.; gut between Hellsgate and Mastiegut 300—400 M.: n. 2055 B.; Peperpot: n. 55.

St. Croix ex Millspaugh.

Antill., Amer. trop. cont. (Symb.).

310. **Pappophorum** Schreb.

Pappophorum alopecuroideum Vahl Symb. bot. III (1794) 10 t. 51; Gris. Fl. 537.

Pappophorum laguroideum Schrad. in Schult. Mant. II (1824) 342; Duss 506. Crabgrass.

St. Eustatius: Between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 772 B.; seashore near White Wall: n. 856 B.; near Boven 200 M.: n. 1233 B.; near White Wall on the top of the Cliff: n. 1255 B.; Cliff: n. 1728; Concordiabay: n. 2236.

Saba: Laddergut 50 M.: n. 1974 B.; Ladder: n. 2231; at the seashore: n. 2137 B.

St. Martin: Tintamarre: n. 3386 B.

Trinidad, La Tinta, Bras. to Uruguay (Gris. Fl.).

341. **Eragrostis** Host.

Eragrostis ciliaris Lk. Hort-Berol I (1827) 192; Gris. Fl. 532; Duss 502; Millspaugh 475.

St. Eustatius: in a garden in Oranjestad: n. 69 B.; Bengalen: n. 615 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 794 B.; along roads in Oranjestad: n. 1073 B.; Cliff: n. 2144; slope of the Quill: n. 2131; Cultuurvlakte: n. 2145.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1362 B.; between Bottom and Marypoint 100—200 M.: n. 1561 B.; top of the Cliff near the seaside of Boobyhill: n. 1602 B.; Mountain 600 M.: n. 1746 B.; Ladder: n. 2080.

St. Martin: Colebay (Coll. George): n. 2511 B.; Nakedboyhill 50—200 M.: n. 2686 B.; in an orchard near Bellevue: n. 2847 B.; Top of the hills on the northern side of Cul de Sac 200—300 M.: n. 2986 B.; in a plantation of cotton near Belvedere: n. 3409 B.;

St. Croix ex Millspaugh.

Baham., Antill., Amer. trop., Afr. trop., Ind. orient. (Symb.).

Eragrostis pilosa Beauv. Agrost. (1812) 71; Gris. Fl. 532; Duss 502; Millspaugh 475.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1308 B.; Crispeen 400 M.: n. 1767 B.; Windwardside in 1891*a* B.;

St. Martin: Nakedboyhill 50—200 M.: n. 2678 B.; between Mount Vernon and Orientbay: n. 2942 B.; from Belvedere to Oysterpond: n. 3053 B.; lower part of the Milldrumhill: n. 3157 B.

St, Croix ex Millspaugh.

Antill., warmer countries of both hemisph. (Symb.).

Eragrostis tephrosanthos Schult. Syst. Mant. II (1824) 316.

Eragrostis poaeoides Gris. Fl. W. I. (1864) 532; (p. p.). (Symb.).

St. Martin: Fort Willem 0—50 M.: n. 2550 B.; near Oysterpond: n. 3053 B.

Antill., Amer. austr. (Symb.).

385. **Festuca** Linn.

Festuca Myurus Linn. Spec. (1753) 74.

St. Eustatius: from Signalhill to Tumbledowndickbay: n. 129*a* B.; Signalhill: n. 982*a* B., 1040 B.; near Boven: n. 1237*a* B.

Europa, Amer. and Asia boreal. (Ind. Kew.).

20. Cyperaceae.

Juncellus C. B. Clarke.

cf. 459 Cyperus Linn. sect. 2.

Juncellus laevigatus C. B. Clarke in Hook. f. Fl. Brit. Ind. VI (1893) 596.

Cyperus mucronatus Rottb. Descr. et Ic. (1773) p. 19 t. 8 fig. 4; Gris. Fl. 562.

St. Martin: near the saltponds of Filipsburg: n. 2444 B.

Antill., in almost all warmer countries of both hemisph. (Symb.).

459. **Cyperus** Linn.

Cyperus distans Linn. Fil. Suppl. (1781) 103; Gris. Fl. 565; Duss 540.

St. Eustatius: Slope of the Quill 200 M.: n. 23, 29.

Saba: Top of the Mountain: n. 1745*a* B.; Rendez vous Mountain: n. 209.

Antill., warmer countries of both hemisph. (Symb.).

Cyperus elegans Linn. Spec. (1762) 68.

Cyperus viscosus Swartz Prod. (1788) 20; Gris. Fl. 563; Duss 537.

Cyperus confertus Gris. Fl. W. I. (1864) 563 pro magna parte, non Swartz. Millspaugh 476. (Symb.).

St. Eustatius: locality unknown: n. 266 H.

St. Martin: along the saltpond near Filipsburg: n. 2447 B.; Cul de Sac—Marigothill 0—200 M.: n. 2625 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2906 B.

St. Croix ex Millspaugh.

Florida, Antill., Bonaire, Curaçao, Amer. centr., Argentinia. (Symb.).

Cyperus rotundus Linn. Spec. (1762) 67; Gris. Fl. 564; Mill spaugh 477. Nutgrass.

Cyperus purpureo-variegatus Boeck. Cyp. Novae. Heft 2 (1890) 37; Duss 539.

St. Eustatius: along roads in Oranjestad: n. 1074 B.; Cultuurvlakte: n. 35; locality unknown: n. 159 G.

Saba: Top of the Cliff near the seashore of Boobyhill: n. 1603 B.; Mountain 800 M.: n. 2186 B.

St. Martin: in pastureground near Bellevue: n. 2828 B.; along roads near Bethlehem: n. 2936 B.; in pastureground between Belvedere and Oysterpond: n. 3085 B..

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., warmer countries of both hemisph. (Symb.).

Mariscus Gärtn.

cf. 459. Cyperus Linn. sect. 6.

Mariscus brizaeus C. B. Clarke in Symbolae Antillanae II (1900) 52.

Cyperus bruneus Swartz Fl. Ind. Occ. I (1797) 116 partim. (Symb.); Duss 539. Bullgrass.

St. Eustatius: slope of the Quill near Bengalen 100 M.: n. 671 B., 699 B.; locality unknown: n. 115 G., 262 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1343 B.; near Flat Point: n. 2129 B.; Greathill: n. 46.

I also saw Mariscus brizaeus: Green Island.

St. Martin: near Mulletpond: n. 2786 B.; Tintamarre: n. 3369 B.

St. Croix ex Millspaugh.

Baham., Antill., Florida. (Symb.).

Mariscus capillaris Vahl Enum. II (1806) 372.

Cyperus capillaris (Sw.) Millspaugh 476.

Saba: along the Forthgut 150—200 M.: n. 1632 B.; Mountain 600 M.: n. 1738 B.; Springbaygut: n. 2097 B., 2101 B.

St. Martin: from Filipsburg to Guanabay: n. 2356 B.; along roads from Grande Case to Marigot: n. 3103 B.

Anguilla Boldingh.

St. Croix (Symb.).

Cuba, Jamaica, Hispaniola. (Symb.).

Mariscus flavus Vahl Enum. II (1806) 374.

Cyperus flavus Nees, in Linnaea XIX (1847) 698; Millspaugh 476.

Cyperus flavomariscus Gris. Fl. W. I. (1864) 567 partim; Duss 542. (Symb.).

Saba: Mountain 600 M.: n. 1749 B.

St. Croix ex Millspaugh.

Antill., from Mexico and Texas to Patagonia. (Symb.).

Torulinium Desv.

cf. 459. Cyperus sect. 5.

Torulinium confertum Desv. in Ham. Prodr. (1825) 15.

Cyperus ferax L. C. Rich. in Acta Soc. Hist. Nat. Paris I (1792) 106; Duss 541.

St. Eustatius: slope of the Quill: n. 43.

Saba: Mountain 600 M.: n. 1773 B.

Bermud., Baham., Antill., Aruba, in warmer countries of both hemisph. (Symb.).

462. **Kyllinga** Rottb.

Kyllinga brevifolia Rottb. Descr. et Ic. (1773) p. 13 t. 4 fig. 3; Gris. Fl. 568; Duss 543; Millspaugh 475.

Kyllinga monocephala Thunb. Fl. Japon. (1784) 35; Gris. Fl. 568.

St. Martin: Hill on the northern side of Cul de Sac: n. 2977 B.: Mount Paradis 200—400 M.: n. 3206 B.; Retreat: n. 42.

St. Croix ex Millspaugh.

Bermud., Antill., warmer countries of both hemisph. (Symb.).

469. **Heleocharis** R. Br.

Heleocharis capitata Boeck. in Vidensk. Meddel. Kjob. (1868—69) 159; Duss 545; Millspaugh 477.

Scirpus capitatus Linn. Spec. (1753) 48; Gris. Fl. 570 (partim.).

St. Martin: along the saltpond near Filipsburg: n. 2451 B.

St. Croix ex Millspaugh.

Bermud., Baham., warmer countries of both hemisph. (Symb.).

471. **Fimbristylis** Vahl.

Fimbristylis spathacea Roth. Nov. Pl. Sp. (1821) 24.

Scirpus obtusifolius Gris. Fl. W. I. (1864) 571.

St. Martin: Lowlands: n. 3298*a* B.

Antill., in trop. contries of both hemisph. (Symb.).

473. **Dichromena** Vahl.

Dichromena radicans Schlecht et Cham. in Linnaea VI (1831) 38.

Rhynchospora Persooniana Gris. Fl. W. I. (1864) 577.

Rhynchospora Humboldtiana Gris. Fl. W. I. (1864) 577 syn. excl. (Symb.).

Saba: between Bottom and Marypoint 300 M.: n. 1582 B.; Crespeen 400 M.: n. 1765 B.; Mountain 600 M.: n. 1775 B., 37.

Antill., Amer. centr. (Symb.).

489. **Cladium** Crantz.

Cladium restioides Benth. in Benth. et Hook. f. Gen. Pl. III (1883) 1066.

Machaerina restioides Vahl. Enum. II (1806) 238; Gris. Fl. 573.

Saba: Mountain 800 M.: n. 2210 B., 42, 208 L.

Cuba, Hispaniola, St. Kitts, Montserrat, Guadeloupe, Dominica, Martinique, St. Vincent. (Symb.).

492. **Rhynchospora** Vahl.

Rhynchospora polyphylla Vahl. Enum. II (1806) 230; Gris. Fl. 575; Duss 551.

Saba: Mountain 600—800 M.: n. 1790 B., 49.

Antill., Amer. centr., Nova Granata, Venezuela. (Symb.).

515. **Scleria** Berg.

Scleria lithosperma Sw. Prod. (1788) 18; Duss 555; Millspaugh 477. Mountaingrass.

Scleria filiformis Sw. Prod. (1788) 19; Gris. Fl. 579.

St. Eustatius: Top of the Quill 400 M.: n. 277*a* B., 269 H.

St. Croix ex Millspaugh.

Baham., Antill., warmer countries of both hemisph. (Symb.).

Scleria pterota Presl. in Oken Isis XXI (1828) 268; Millspaugh 477.

Scleria pratensis Nees in Mart. Fl. Bras. II pars I (1843) 179 t. 23; Gris. Fl. 577; Duss 553.

Saba: lower part of the Bottom Mountain 300 M.: n. 1432 B.; Mountain 600 M.: n. 1747 B., 1750 B.; locality unknown: n. 51, 132 L., 184 L.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

21. Palmae.

528. **Phoenix** Linn.

Phoenix dactylifera Linn. Spec. (1753) 1188.

Cultivated [Afr. sept.] (Symb.).

536. **Thrinax** Linn. f.

Thrinax spec.
St. Eustatius: Gilboohill: n. 1120*a* B.
Saba: Windwardside—Bottom: n. 298 L.

613. **Oreodoxa** Willd.

Oreodoxa caribaea Damm. et Urb. in Urban Symbolae Antillanae. IV. (1903) 129.
Cultivated. [Portorico.] (Symb.).

631. **Euterpe** Mart.

Euterpe spec. (prob. Oenocarpus Mart.).
Saba: Mountain: n. 135, 136, 137.

663. **Cocos** Linn.

Cocos nucifera Linn. Spec. (1753) 1188.
Cultivated. [Amer. austr. sept. occid.?] (Symb.).

23. Araceae.

689. **Anthurium** Schott.

Anthurium cordatum G. Don. in Sweet. Hort. brit. ed. III (1839) 633. Monkeytail.

St. Eustatius: Top of the Quill 400 M.: n. 182 B., 232 B., 294 B.; slope of the Quill 350 M.: n. 409 B.; slope of the Quill near Bengalen 250 M.: n. 697 B., 736 B.; slope of the Quill: n. 31, 33, 34, 35; locality unknown: 195 G.

Saba: Mountain 600 M.: n. 1741 B.; Paris: n. 32; locality unknown: n. 287 L.

St. Martin: Nakedboyhill 200—265 M.: n. 2720 B.: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2857 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3415 B.; locality unknown: n. 36.

St. Croix (Engler 1898).
Jamaica, St. Kitts, Martinique. (Engler 1898).

739. **Philodendron** Schott.

Philodendron dispar Schott. Syn. Ar. (1856) 79; Gris. Fl. 510; Duss 479.

St. Eustatius: Top of the Quill 400 M.: n. 298 B.; slope of the Quill 350 M.: n. 389 B.; Quill: n. 913 B.; Bottom of the Quill 300 M.: n. 432 B., 468 B., 14, 29, 30; locality unknown: n. 220 G.

Saba: Windwardside—Hellsgate: n. 1674 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2034 B.

Guadeloupe, Martinique, St. Vincent. (Symb.).

Philodendron giganteum Schott Syn. Ar. (1856) 89; Duss 479.

St. Eustatius: I saw Philodendron giganteum on the top of the Quill.

Saba: Mountain: n. 2275*a* B.

Portorico, St. Kitts, Guadeloupe, Martinique, St. Vincent. (Symb.).

Philodendron oxycardium Schott Syn. Ar. (1856) 82 (vel. affin.).

St. Eustatius: Top of the Quill: n. 298 B., 394 B., 389 B.; inner slope of the Quill: n. 457 B.

Saba: Mountain: n. 2076*a* B.; gut near Devilshand: n. 2086 B.

Antill., Guatemala. (Symb.).

755. **Colocasia** Schott.

Colocasia esculenta Schott Melet. I (1832) 18.

Cultivated. [India orient.] (Symb.).

758. **Xanthosoma** Schott.

Xanthosoma spec.

Cultivated.

24. Lemnaceae.

795. **Lemna** Linn.

Lemna paucicostata Hegelm. ex Engelm. in A. Gray Man. Bot. V ed. (Jan. 1868) 681; Duss 484.

Lemna minor Griseb. Fl. W. I. (1864) 512 (p. p.). (Symb.); Millspaugh 478.

St. Martin: Lowlands: n. 3285 B.; near Vineyard: n. 3350*a* B.

St. Croix ex Millspaugh.

Antill., Amer. cont., Afr., Asia austro-orient., Japon., Australia. (Symb.).

32. Bromeliaceae.

840. **Bromelia** Linn.

Bromelia pinguin Linn. Spec. (1753) 285; Gris. Fl. 591; Millspaugh 478. Pingwing.

St. Eustatius: along roads in Oranjestad: n. 103 G.

I saw Bromelia pinguin in gardens in Oranjestad.

Saba: Bottom: n. 2292 B.; Peperpot: n. 79, 80.

I also saw Bromelia pinguin: Crespeenhill.

St. Martin: along roads from Colebay to Simsonsbay: n. 3250 B.

St. Croix ex Millspaugh.

Antill., Amer. cont., Venezuela. (Symb.); also cultivated.

851. **Ananas** Adans.

Ananas sativus Schult. f. in R. et Sch. Syst. VII (1830) 1283.

Cultivated. [Brasilia.] (Symb.).

860. **Wittmackia** Mez.

Wittmackia lingulata Mez. in Mart. Fl. Bras. III. 3. (1891) 274; Duss 570.

Aechmea lingulata Baker in Journ. Bot. XVII (1879) 164.

Saba: Greathill: n. 1377*a* B., Paris 300 M.: n. 82; Bottom: n. 85; locality unknown: n. 293 L.

St. Martin: Milldrumhill 300—400 M.: n. 3142 B.; Centryhill: n. 106.

St. Thomas, Virgin. Isl., Viequez, Crabben Isl., St. Lucia, Martinique, Guadeloupe, St. Vincent, Becquia, Antigua, Tobago, Trinidad. (Mez 1896).

878. **Pitcairnia** l'Hérit.

Pitcairnia angustifolia Redouté Liliac. II (1805) tab. 76; Gris. Fl. 594; Millspaugh 478. Klapper.

St. Eustatius: Top of the Quill 400 M.: n. 246 B., 304 B., 366 B., 383 B.; along roads in Oranjestad: n. 529 B.; near Maryglory 150 M.: n. 1134 B.; Quill: n. 89, 97; Bengalen: n. 113; Greatgut: n. 88.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1368 B; top of the Cliff near the seaside of Boobyhill: n. 1609 B.; Laddergut 0—200 M.: n. 1973 B.; Paris: n. 115; Wellgut: n. 101.

I also saw Pitcairnia angustifolia: near the Sulphurmines: Hellsgate to Marypoint.

St. Croix ex Millspaugh.

Portorico, Grenada, St. Thomas, Antigua, Dominica, St. Vincent, Martinique, Guadeloupe, St. Croix. (Mez 1896).

890. **Tillandsia** Linn.

Tillandsia excelsa Gris. Flor. W. I. (1864). 597.

Saba: Top of the Mountain: n. 2222 B.

Cuba, Jamaica. (Mez 1896).

Tillandsia fasciculata Sw. Prodr. (1788) 56; Gris. Fl. 595; Duss 572.

Saba: St. John's 250 M.: n. 1728 B.; Paris: n. 116; locality unknown: n. 21 L.

St. Martin: Milldrumhill 300—400 M.: n. 3145 B., Centryhill: n. 105.

Florida austral., Baham., Antill., Mexico, Amer. centr, and austro-sept. (Symb.).

Tillandsia recurvata Linn. Spec. (1762) 410; Gris. Fl. 598; Duss 574; Millspaugh 478. Old man's beard.

St. Eustatius: slope of the lower part of Signalhill: n. 108*a* B.; along roads in Oranjestad: 581 B.; Signalhill: n. 91, 96; locality unknown: n. 217 H.

Saba: along the Forthgut 150—200 M.: n. 1634 B.; Bottom: n. 93.

St. Martin: Princequarter (Coll. George.): n. 2486 B.: Cul de Sac: n. 2620 B.; Nakedboyhill 280 M.: n. 2736 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2937*a* B.; hills on the eastern side al Cul de Sac n. 3441 B.

I also saw Tillandsia recurvata: gut from Bethlehem to Cul de Sac.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., warmer countries of Amer. (Symb.).

Tillandsia usneoides Linn. Spec. (1762) 411; Gris. Fl. 598; Duss 574; Millspaugh 478. Old man's beard.

St. Eustatius: locality unknown: n. 295 G.

I also saw Tillandsia usneoides near Boven.

Saba: along the Forthgut 150—200 M.: n. 1633 B.; Peperpot: n. 92, 94; Paris: n. 95.

St. Martin: Gut from Bethlehem to Cul de Sac 100—200 M.: n. 3416 B.; top of Centryhill: n. 107.

St. Croix ex Millspaugh.

Antill., warmer countries of Amer. (Symb.).

Tillandsia utriculata Linn. Spec. (1753) 286; Gris. Fl. 596; Duss 573; Millspaugh 478. Wild pine.

St. Eustatius: Top of Signalhill 225 M.: n. 1031 B.; Top of Pongo: n. 90; Top of the Quill: n. 99.

Saba: Slope of the Mountain near St. John's: n. 1735 B.; Paris 200 M.: n. 83, 84; Jenkygut: n. 114; locality unknown: n. 81.

St. Martin: Nakedboyhill 260 M.: n. 2729 B.

St. Croix ex Millspaugh.

Florida austral., Baham., Antill., Curaçao, Mexico, Venezuela, Guyana. (Symb.).

891. **Vriesea** Lindl.

Vriesea guadalupensis Mez in C. de Candolle Monogr. vol. IX (1896) 596. (vel affin.).

St. Eustatius: Top of the Quill: n. 245 B., 315 B.

Saba: Mountain near Windwardside: n. 2181 B.; St. John's: n. 86.

Guadeloupe. (Mez 1896).

892. **Catopsis** Griseb.

Catopsis nutans Griseb. Fl. W. I. (1864) 599; Duss 577.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 57 B.; rocky slope of the hills near Tumbledowndickbay: n. 152 B.; top of the Quill: n. 303 B., 100, 101.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1358 B.; Boobyhill 300 M.: n. 1622 B.; slope of the Mountain near St. John's.: n. 1734 B.

St. Martin: Nakedboyhill 50—200 M.: n. 2709 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2854 B.: Mount Paradis 300—400 M.: n. 3237 B.

Antill., Amer. centr. (Symb.).

33. Commelinaceae.

896. **Commelina** Linn.

Commelina virginica Linn. Spec. (1762) 62: Millspaugh 478.

Commelina elegans H. B. K. Nov. Gen. I (1815) 259; Gris. Fl. 525; Duss 498. Watergrass.

St. Eustatius: seashore near Tumbledowndickbay: n. 158 B.; along roads in Oranjestad: n. 565 B.; slope of the Quill near Bengalen 50—200 M.: n. 640 B., 653 B., 654 B.; Signalhill 150 M.: n. 1053 B.; Mountain near Bengalen: n. 262; Cultuurvlakte: n. 281; locality unknown: n. 2 H., 2 G.

I also saw Commelina virginica at the seashore near Oranjestad.

Saba: between Bottom and Marypoint 100—200 M.: n. 1471 B., 1531 B.; Mountain 400 M.: n. 1770 B.; Laddergut 0—200 M.: n. 2015 B.; Windwardside: n. 2318 B.; Peperpot: n. 284; Jenkeygut: n. 285; Bottom: n. 280; locality unknown: n. 15 L.

St. Martin: From Filipsburg to Guanabay: n. 2381 B.; Mountain between Mont des Accords and Centryhill 0—200 M.: n. 2853 B.; along roads from Colebay to Simsonsbay: n. 3249 B.; Mount Paradis 200—300 M.: n. 3307 B.; roads near Colebayhill: n. 264; John Ednyhill: n. 263.

I also saw Commelina virginica near Saline; near Bellevue; Nakedboyhill.

St. Croix ex Millspaugh.

Antill., Curaçao, warmer countries of Amer. cont. (Symb.).

911. **Tradescantia** Linn.

Tradescantia geniculata Jacq. Enum. (1760) 18; Gris. Fl. 523; Duss 495.

St. Martin: Milldrumhill 300—400 M.: n. 3141 B.; Mount Paradis 300—400 M.: n. 3222 B., 3346 B.; locality unknown: n. 3622 B.

Antill., Amer. cont. trop., from Mexico to Paraguay, Ins. Sandw. (Symb.).

912. **Callisia** Linn.

Callisia repens Linn. Spec. (1752) 62; Gris. Fl. 524; Duss 497; Millspaugh 479.

St. Eustatius: cultuurvlakte: n. 261.

Saba: between Bottom and Marypoint 100—200 M.: n. 1459*a* B.; Springbaygut: n. 2099 B.; Bottom: n. 273; locality unknown: n. 311 L.

St. Martin: from Filipsburg to Guanabay: n. 2380 B.; from Filipsburg to Belvedere: n. 2591 B.; hill on the northern side of Cul de Sac 0—100 M.: n. 3000 B.

I also saw Callisia repens: on the hill between Mont des Accords and Centryhill; top of Mount Paradis 400 M.

St. Croix ex Millspaugh.

Antill., Mexico, Amer. centr., Venezuela, Peru, Bras. (Symb.).

916. **Rhoeo** Hance.

Rhoeo discolor Hance Misc. in Walp. Ann. III (1852—'53) 660.

Cultivated. [Mexico, Antill.] (Symb.).

918. **Zebrina** Schnizl.

Zebrina pendula Schnizl. in Bot. Zeitg. VII (1849) 870; Millspaugh 479.

Saba: Lower part of the Bottom Mountain 250 M.: n. 1416 B.; along roads between Bottom and Windwardside 200 M.: n. 1335 B.; Windwardside n. 1936 B., 2314 B.; Crespeen—Rendez-vous: n. 282; Gainbygut: n. 283; locality unknown: n. 42 L.

St. Croix ex Millspaugh.

Antill., Mexico, Amer. centr. (Symb.).

38. Liliaceae.

1026. **Aloe** Linn.

Aloe vera Linn. Spec. (1753) 320.

Aloe vulgaris Lam. Enc. I (1783) 86; Gris. Fl. 582; Duss 566; Millspaugh 479. Aloe.

St. Eustatius: locality unknown: n. 3589 B., 102 G.

I also saw Aloe vera on Signalhill.

St. Martin: I saw Aloe vera: along roads from Filipsburg to Nakedboyhill; along roads near Bethlehem; along roads near Belvedere.

Bermud., Antill., Indig. in mediterr. countries and Ins. Canar. (Symb.).

1049. **Allium** Linn.

Allium ascalonicum Linn. Amoen. Acad. IV (1759) 454.

Cultivated. [Everywhere cultivated.] (Ind. Kew.) Charlotten.

1103. **Yucca** Linn.

Yucca aloifolia Linn. Spec. (1753) 319; Gris. Fl. 582; Duss 557. Adam's needle. Spanish dagger.

St. Martin: Near Orientbay: n. 2922*a* B., 3358 B.

Cuba, Haïti, Jamaica, Tobago. (Herb. Krug et Urban.).

1110. **Sanseviera** Thunb.

Sanseviera guineensis Willd. Spec. Plant. II (1799) 159 Rhammi.

Cultivated. [Afr. trop.] (Symb.).

1151. **Smilax** Linn.

Smilax coriacea Spr. Syst. Veg. II (1825) 103.

Smilax havanensis Gris. Flor. W. I. (1864) 586 (pro parte) — non Jacq. (Symb.). White withe.

St. Eustatius: inner slope of the Quill 350 M.: n. 412 B. 1227; slope of the Quill near Bengalen 150 M,: n. 678 B., 735 B; locality unknown: n. 188 G., 263 H.

St. Croix. (Symb.)

Haiti, Domingo, Portorico. (Symb.).

Smilax guianensis Vitman Summa Plant. V (1791) 422.

Smilax macrophylla Willd. Spec. Plant. IV 2 (1806) 786; Gris. Fl. 586; Duss 560. Basket hoop.

St. Eustatius: Top of the Quill: n. 189 B.; Quill: n. 2022; Bengalen 150—200 M.: n. 2019.

Saba: Lower part of the Bottom Mountain 250 M.: n. 1423 B.; Hellsgate: n. 2023.

Antill., Guiana. (Symb.).

Smilax ilicifolia Kth. Enum. V (1850) 171.

Smilax havanensis Griseb. Flor. W. I. (1864) 586 (p. p. non L.) (Symb.); Millspaugh 479.

St. Martin: Top of the hill on the northern side of Cul de Sac 200—300 M.: n. 3013 B.; Lowlands: n. 3262 B., 3277 B.

St. Croix ex Millspaugh.

Cuba. (Symb.).

40. Amaryllidaceae.

1181. **Zephyranthes** Herb.

Zephyranthes carinata Herb. in Bot. Mag. LII (1825) t. 2594.

Amaryllis carinata Spreng. Syst. Cur. post (1827) 132; Gris. Fl. 584; Duss 562. White snowdrop.

St. Eustatius: in a garden in Oranjestad: n. 42 H.

I also saw Zephyranthes carinata: slope of the Quill near Glassbottle.

Saba: Bottom: n. 3, 4, 5.

St. Martin: slope of Centryhill: n. 6.

Antill., Mexico. (Symb.). Also cultivated.

1189. **Crinum** Linn.

Crinum americanum Linn. Spec. (1753) 292.

Cultivated. [Amer. austr.] (Ind. Kew.).

1194. **Hymenocallis** Salisb.

Hymenocallis caribaea Herb. App. Bot. Reg. (1821) 14; Duss 559; Millspaugh 480.

Pancratium caribaeum Linn. Spec. (1753) 291; Gris. Fl. 583. White lily.

St. Eustatius: Glassgut near Oranjestad: n. 51 B.; slope of the Quill near Bengalen 100 M.: n. 674 B.; near Maryglory 150 M.: n. 1148 B.; Oranjestad: n. 25; locality unknown: n. 298 H., 298*a* G.

Saba: Boobyhill: n. 1572 B.; along the Forthgut 150—200 M.: n. 1635 B.; Bottom: n. 26.

St. Martin: Guanabay: n. 2429 B.; Mountain between Mont des Accords and Centryhill 0—200 M.: n. 2851 B.

St. Croix ex Millspaugh.

Florida, Baham., Antill. (Symb.). Also cultivated.

1196. **Eucharis** Planch.

Eucharis grandiflora Planch. et Linden in Fl. des Serres. Sér. I (IX) (1853—1854) 255.

Cultivated. [New Granada.] (Ind. Kew.)

Eucharis lily.

1208. **Hippeastrum** Herb.

Hippeastrum puniceum Urb. in Symb. Antill. IV. (1903) 151.

Amaryllis equestris Ait. Hort. Kew. I (1789) 417; Gris. Fl. 584.

Hippeastrum equestre Herb. App. Bot. Reg. (1821) 31; Duss 561; Millspaugh 480.

St. Eustatius: Little Mountain: n. 15; locality unknown: n. 23.

Saba: Peperpot: n. 14; Bottom: n. 24.

St. Croix ex Millspaugh.

Antill., Amer. trop. (Symb.). Also cultivated.

1222. **Fourcroya** Vent.

Fourcroya gigantea Vent. in Bul. Soc. Philom. I (1793) 65; Gris. Fl. 582; Duss 558. Karáta, Pita.

St. Eustatius: along roads in Oranjestad: n. 101 G.

I also saw Fourcroya gigantea: on the top of the Cliff near Gallowsbay; Bergje; slope of Signalhill.

St. Martin: along roads near Belvedere: n. 3359 B.
Antigua, French Islands to Bras. (Gris. Fl.).

1230. **Hypoxis** Linn.

Hypoxis decumbens Linn. Syst. X ed. II (1759) 986; Gris. Fl. 585; Duss 562. (procumbens errore).
Saba: Mountain 600—800 M.: n. 1785 B., 1796 B., 2191 B.; Mountain near Windwardside 600 M.: n. 2161 B.; Jenckygut: n. 2.
Antill., Amer. cont. trop. (Symb.).

43. Dioscoreaceae.

1252. **Dioscorea** Linn.

Dioscorea alata Linn. Spec. (1753) 1033; Gris. Fl. 587. Yams.
St. Eustatius: locality unknown: n. 245 H.
Saba: Mountain near Windwardside: n. 2157 B.
Antill. Patria veris. Asia austro-orient. (Symb.). Also cultivated.

Dioscorea trifida Linn. f. Suppl. (1781) 427; Gris. Fl. 587.
Saba: Top of the Mountain 800 M.: n. 1789 B.; Mountain near Windwardside: n. 2155 B.
Antill., Patria Amer.-austral. (Symb.).

44. Iridaceae.

1285. **Belamcanda** Adans.

Belamcanda punctata Moench. Meth. Suppl. (1794) 214.
Cultivated. [China.] (Ind. Kew.).

1292. **Eleutherine** Herb.

Eleutherine plicata Herb. in Bot. Reg. (1843) t. 57. Red root.
Cultivated. [India occid.] (Ind. Kew.)

45. Musaceae.

1318. **Musa** Linn.

Musa paradisiaca Linn. Spec. (1753) 1043.
Musa sapientium Linn. Syst. X ed. II (1759) 1303.
Cultivated. [India orient.] (Symb.).

1321. **Heliconia** Linn.

Heliconia Bihai Linn. Mant. II (1771) 211; Gris. Fl. 600; Duss 579. Wild banana.

St. Eustatius: Bottom of the Quill 300 M.: n. 449 B.; Quill: n. 1077 B., 295, 223 G.

Saba: Mountain 800 M.: n. 2223 B.

Antill., Amer. cont. trop. (Symb.).

46. Zingiberaceae.

1357. **Costus** Linn.

Costus speciosus Sm. in Trans. Linn. Soc. I (1791) 249. Shell-plant.

Cultivated. [Ins. Malay.] (Schumann 1904.).

47. Cannaceae.

1363. **Canna** Linn.

Canna indica Linn. Spec. (1753) 1. Cannon, Indian shot.

Cultivated. [Cosmop. trop.] (Ind. Kew.).

48. Marantaceae.

1370. **Maranta** Linn.

Maranta arundinacea Linn. Spec. (1753). 2. Arrowroot.

Cultivated. [Baham., Antill., Amer. cont. trop.] (Symb.).

50. Orchidaceae.

1490. **Spiranthes** L. Cl. Rich.

Spiranthes elata L. Cl. Rich. Orch. Eur. Adn. (1818) 37; Gris. Fl. 641.

St. Martin: Centryhill: n. 72.

Antill., Amer. austr. (Symb.).

1493. **Stenorrhynchus** L. Cl. Rich.

Stenorrhynchus orchioides L. Cl. Rich. Orch. Eur. (1817) 37; Gris. Fl. 642.

Stenorrhynchus lanceolatus L. Cl. Rich. l. c.; Gris. Fl. 642.

St. Eustatius: Top of the Quill 400 M.: n. 229*a* B.

Baham., Antill., Amer. cont. trop. (Symb.).

1498. **Physurus** L. Cl. Rich.

Physurus hirtellus Lindl. Gen. and Spec. Orch. (1840) 501; Gris. Fl. 642; Duss 606.

St. Eustatius: Top of the Quill: n. 65, 66.

Cuba, Jamaica, Portorico, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada, Trinidad. (Symb.).

Physurus plantagineus Lindl. Gen. and Sp. Orch. (1840) 503; Gris. Fl. 643; Duss 605.

St. Eustatius: Top of the Quill 400 M.: n. 229 B.

Saba: Mountain near Hellsgate: n. 2284*a* B.; Mountain 600—800 M.: n. 1, 2, 3, 4, 67, 68, 69, 176 L.

Cuba, Jamaica, Portorico, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada, Trinidad. (Symb.).

1527. **Prescottia** Lindl.

Prescottia stachyoides Lindl. in Bot. Reg. (1834) sub t. 1915; Gris. Fl. 639; Duss 603.

St. Eustatius: Top of the Quill: n. 71.

Antill., Amer. centr., Bras. (Symb.).

1553. **Microstylis** Nutt.

Microstylis spicata Lindl. Gen. and Sp. Orch. (1830) 19; Gris. Fl. 612; Duss 590.

Saba: Top of the Mountain 6—800 M.: n. 1828 B., 2224 B., 2228 B.

Cuba, Jamaica, Hispaniola, Martinique. (Symb.).

1565. **Polystachya** Hook.

Polystachya luteola Hook. Exot. Flor. (1825) tab 103; Gris. Fl. 628; Duss 597.

St. Eustatius: Quill: n. 70.

Baham., Antill., Amer. trop. (Symb.).

1614. **Epidendrum** Linn.

Epidendrum anceps Jacq. Sel. (1763) 224 t. 138.

Epidendrum fuscatum Sm. Spic. bot. (1791) 21 t. 23; Gris. Fl. 617; Duss 591.

St. Eustatius: Top of the Quill 400 M.: n. 250 B., 381 B.; top of the Quill: n. 92, 93, 95; Quill: n. 96; locality unknown: n. 94.

Saba: Windwardside—Hellsgate: n. 1666 B.; Crispeen 400 M.:

n. 1763 B.; Mountain 800 M.: n. 1818 B.; Springbaygut: n. 2090 B., 2108 B.; Mountain 600 M.: n. 117; Mountain 800 M.: n. 97; Masticgut: n. 119; Wellridge: n. 118.

St. Martin: Milldrumhill 300—400 M.: n. 3149 B.

Antill., Amer. cont. trop. (Symb.).

Epidendrum ciliare Linn. Syst. X ed. (1759) 1246; Gris. Fl. 615; Duss 590; Millspaugh 481.

St. Eustatius: Slope of the Quill near Bengalen: n. 715 B.; top Panga hill: n. 101; top of the Quill: n. 102; Boven: n. 103; locality unknown: n. 281 G., 268 H., 308 G.

Saba: between Bottom and Marypoint 250 M.: n. 1554 B.; Boobyhill 300 M.; n. 1597 B.; Crispeen 400 M.: n. 1727 B.; Paris 2—400 M.: n. 80, 99; Greathill 2—400 M.: n. 81; Rendez-vous 400 M.: n. 100; Hellsgate: n. 98; locality unknown: n. 165 L.

St. Martin: Nakedboyhill 200—260 M.: n. 2727 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2897 B.; Milldrumhill 300—400 M.: n. 3154 B.; gut from Bethlehem te Cul de Sac 100—200 M.: n. 3421 B.; Centryhill: n. 104, 105; French frontier: n. 106.

St. Croix ex Millspaugh.

Antill., Amer. austr-sept. and centr. (Symb.).

Epidendrum difforme Jacq. Enum. (1760) 29; Duss 592.

Epidendrum umbellatum Sw. Prodr. (1788) 121; Gris. Fl. 618.

St. Eustatius: Top of the Quill 400 M.: n. 241 B., 107, 108.

Antill., Amer. trop. (Symb.).

Epidendrum globosum Jacq. Enum. (1760) 29; Gris. Fl. 619; Duss 594.

St. Eustatius: Top of the Quill: n. 83.

Saba: Mountain 800 M.: n. 1827 B.; Mountain near Windwardside 600 M.: n. 2177 B.; Mountain: n. 82; Rendez-vous 400 M.: n. 84.

Antill., Amer. cont. trop. (Symb.).

Epidendrum papilionaceum Vahl in West St. Croix (1793) 303.

St. Eustatius: Signalhill: n. 110 B.; Boven: n. 112; locality unknown: n. 280*a* G.

Saba: Forthbay 30 M.: n. 5.

St. Martin: near Mulletpond: n. 2784 B.; Lowlands: n. 3254 B., 3278 B.

Baham., Antill. (Symb.).

Epidendrum strobuliferum Reichb. f. in Nederl. Kruidk. Archief. IV. (1859) 333; Gris. Fl. 618; Duss 592.

Saba: Rendez-vous 400 M.: n. 109.

St. Croix ex Millspaugh.

Jamaica, Trinidad, Guiana. (Gris. Fl.).

1619. **Brassavola** R. Br.

Brassavola cucullata R. Br. in Ait. Hort. Kew. ed. II V. (1813) 216; Gris. Fl. 620; Duss 594.

St. Eustatius: Lower part of the slope of the hills near Concordia: n. 941 B.; Boven: n. 90.

Saba: Greathill 2—400 M.: n. 91; Masticgut: n. 110.

St. Martin: Milldrumhill 300—400 M.: n. 3139 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3419 B.; Centryhill: n. 111.

Antill., Mexico to Venezuela. (Gris. Fl.).

Brassavola rigida (comb. nov.).

Tetramicra rigida Lindl. Gen. et Sp. Orch. (1831) 119; Gris. Fl. 622.

St. Eustatius: Gut near Fort de Wind 50 M.: n. 825 B.; Little Mountain n. 75; Greatgut: n. 73, 74, 78; locality unknown: n. 76, 77, 51 H.

Ind. occid. (Ind. Kew.).

1733. **Ornithidium** Salisb.

Ornithidium coccineum Salisb. in Trans. Hort. Soc. I (1812) 293; Gris. Fl. 626; Duss 596.

Saba: Mountain 800 M.: n. 1801 B.

Antill., Venezuela. (Symb.).

1779. **Oncidium** Sw.

Oncidium Spec. veris: [1])

St. Eustatius: Signalhill 200 M.: n. 134*** B., 1049 B***.; near White Wall: n. 849*** B.; Signalhill—Red Cliff: n. 56*, 58*, 60*; slope of Signalhill: n. 61***; Signalhill: n. 57*; Red Cliff: n. 62*; White Wall: n. 63*; Grandgut: n. 64*; locality unknown: n. 50*** H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1469*** B., 2039*** B.; Laddergut: n. 53***; Peperpot: n. 54**; Paris: n. 55**.

St. Martin: Nakedboyhill 280 M.: n. 2733*** B.; Centryhill: n. 52**; Princequarter: n. 51**, 59; road near Oysterpond: n. 50**.

Antill. (Symb.).

[1]) *) Oncidium variegatum Sw. in Act. Holm. XXI (1800) 240.
**) Oncidium sylvestre Lindl. in Ann. and Mag. Nat. Hist. III Ser. I (1858) 332.
***) Oncidium tetrapetalum W. (L.) Gris. Fl. 631.

Dicotyledoneae.

51. Casuarinaceae.

1855. **Casuarina** Linn.

Casuarina equisetifolia Linn. Amoen. IV (1759) 143. Casuarine.
Cultivated. [Afr. occid., Australia, Ins. Pacif. and Malay.]. (Symb.).

53. Piperaceae.

1862. **Piper** Linn.

Piper dilatatum L. Cl. Rich. in Act. Soc. Hist. nat. Par. (1792) 105.
Artanthe Bredemeyeri Griseb. Flor. W. Ind. (1859) 170.
Piper Bredemeyeri Jacq. Eclog. (1811—44) 125 f. 84; Millspaugh 481.
St. Eustatius: Inner slope of the Quill 350 M.: n. 416 B., 424 B. top of the Quill 500 M.: n. 491 B., slope of the Quill near Bengalen 200 M.: n. 706; Quill 2566, 2560, 2501; locality unknown: n. 174 G.
Saba: Lower part of the Bottom Mountain 300 M.: n. 1439 B.; Bottom 200 M.: n. 1451 B.; Laddergut 0—200 M.: n. 1964 B.; gut between Masticgut and Hellsgate 300—400 M.: n. 2061; Crespeen — Rendez-vous 400 M.: n. 2511; Hellsgategut: n. 2569.
St. Martin: Hills on the northern side of Cul de Sac 100—200 M.: n. 2981 B.; Mount Paradis 300—400 M.: n. 3219 B.
St. Croix ex Millspaugh.
Antill., Mexico, Costarica, Panama, Columbia, Venezuela, Bras. (Symb.).

Piper marginatum Jacq. Ic. rar. II (1786) 2 t. 215.
Schillera caudata Kunth in Linnaea XIII (1839) 716; Gris. Fl. 170.
Saba: locality unknown: n. 159 L.
Antill., Panama, Surinam., Guiana gallica, Venezuela, Bras., Peru. (Symb.).

Piper medium Jacq. Ic. rar. I (1781) 2 t. 8.
Piper ceanothifolium Kunth. in H. B. K. Nov. Gen. I (1815) 26; Duss 177.
Enckea Sieberi Gris. Flor. W. I. (1859) 177 (p. p.) (Symb.).
St. Eustatius: Quill: n. 459 B.
Antill., Amer. cont. (Symb.).

Piper peltatum Linn. Spec. (1753) 30.

Heckeria peltata Kunth in Linnaea XIII (1839) 565.

Pothomorphe peltata Miq. Comm. phyt. (1838) 37; Gris. Fl. 169; Duss 175; Millspaugh 481.

Saba: Mountain 500 M.: n. 899; Gainbygut: n. 888, 889, 895.

Antill., Amer. cont. centr. and austral. (Symb.).

Piper reticulatum Linn. Spec. (1753) 29.

Enckea smilacifolia Griseb. Flor. W. Ind. (1859) 169. (excl. syn. Willd.) (Symb.).

Piper smilacifolium C. DC. Prodr. XVI, 1 (1869.) 245; Duss 175: — non H. B. K. (Symb.). Wild cane.

St. Eustatius: Inner slope of the Quill 350 M.: n. 423 B., 459 B.; Bottom of the Quill 300 M.: n. 911 B.; Quill: n. 78 H.; 2553, 2527, 925, 2529, 922, 926, 939.

Saba: Boobyhill 300 M.: n. 1617 B.; Springbaygut: n. 2083 B., 2106 B., locality unknown: n. 159 L.

Guadeloupe, Martinique, St. Vincent, Trinidad. (Symb.).

1866. **Peperomia** Ruiz. et Pav.

Peperomia acuminata C. DC. in Symb. Antill. III (1902) 242.

Peperomia glabella Griseb. Flor. W. Ind. (1859) 165. (Symb.).

Peperomia glabella var. nigropunctata Duss Fl. phan. (1897) 172. (Symb.).

St. Eustatius: Top of the Quill 400 M.: n. 178 B., 317 B., near Maryglory 150 M.: n. 1160 B.; Missionhouse road: n. 551.

Saba: Greathill 400 M.: n. 1382 B.; Paris n. 315, 321; John Ednyhill: n. 302; locality unknown: n. 103 L, 171 L.

St. Martin: Nakedboyhill: n. 2725 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2898 B.

Antill., Columbia, Guiana. (Symb.).

Peperomia emarginella C. DC. Prodr. XVI. 1 (1869) 437.

Peperomia exilis Griseb. Flor. W. Ind. (1859) 164. (Symb.); Duss 170.

Saba: Mountain 800 M.: n. 1813 B; Mountain 6—800 M.: n. 19.

Cuba, Jamaica, Hispaniola, Portorico, St. Kitts, Guadeloupe, Martinique, St. Vincent, Trinidad. (Symb.).

Peperomia glabella A. Dietr. Sp. I (1831) 156; Gris. Fl. 165 p. p. (Symb.). Orchidspurslane.

St. Eustatius: Top of the Quill 400 M.: n. 180 B., 334 B.; slope of the Quill near Bengalen 150 M.: n. 679 B.; locality unknown: n. 1023 B., 193 G.; Quill: n. 646, 593, 620, 633, 1054; Boven: n. 1053.

Saba: Along roads between Bottom and Windwardside 200 M.: n. 1352 B.; Gainbygut: n. 1445*a* B.; Boobyhill 350 M.: n. 1612 B.; along the Forthgut 150—200 M.: n. 1625 B.; Crispeen 400 M.: n. 1723 B.; Springbaygut: n. 2105 B., 2110 B.; Windwardside: n. 2321 B.; Peperpot: n. 1052.

St. Martin: Mountain between Mont des Accords and Centry hill 200—300 M.: n. 2886 B.; top of the hill on the northern side of Cul de Sac 200—300 M.: n. 3008 B., Milldrumhill 300—400 M.: n. 3135 B.; Mount Paradis 150—400 M.: n. 3192 B., 3196 B., 3340 B.

I also saw Peperomia glabella on Nakedboyhill 100—200 M.

Antill., Costarica, Amer-austr. (Symb.).

Peperomia hernandifolia A. Dietr. Sp. I (1831) 157; Duss 172.

Saba: Mountain 800 M.: n. 1808 B.; Mountain 6—800 M.: n. 634, 140; locality unknown: n. 174 L.

Antill., Costarica, Venezuela. (Symb.).

Peperomia Langsdorffii Miq. Syst. (1843) 116.

St. Eustatius: Top of the Quill 380 M.: n. 278 B.; lower parts of the hills near Concordia: n. 974 B.

St. Martin: Nakedboyhill 200—265 M.: n. 2717 B., along roads near Colebayhill: n. 3041 B.; gut from Bethlehem to Cul de Sac 0—100 M.: n. 3414 B.; Milldrumhill 100—200 M.: n. 3117 B.; Colebayhill: n. 141.

St. Croix. (Symb.).

Haïti, St. Domingo, Portorico, St. Thomas, St. Jan, Tortola, Antigua. (Symb.).

Peperomia obtusifolia A. Dietr. Sp. I (1831) 154; Duss 173.

Peperomia magnoliaefolia A. Dietr. Sp. I (1831) 153; Duss 173. (Symb.).

St. Eustatius: Top of the Quill 400 M.: n. 242 B., 353 B.; Quill: n. 277, 293, 279, 278, 291, locality unknown: n. 290.

Saba: Mountain 600 M.: n. 1757 B.; Springbaygut: n. 2102 B.; Milldrumhill 300—400 M.: n. 3146 B.

St. Croix. (Symb.).

Antill., Amer. cont. trop., (Florida, Mexico, Venezuela.) (Symb.).

Peperomia petiolaris C. DC. in Seem. Journ. of Bot. IV (1866) 138. Wall purslane.

St. Eustatius: In a garden in Oranjestad: n. 63 B.; at the seashore near Tumbledowndickbay: n. 155 B.; on walls in Oranjestad: n. 69 G.

Saba: Along roads between Bottom and Windwardside 200 M.: n. 1341 B.; lower part of the Bottom Mountain 250 M.: n. 1410 B.; Windwardside: n. 1893 B.; Bottom: n. 2245 B.; locality unknown: n. 39 L.

Cuba, Paraguay. (Symb.).

Peperomia scandens R. et Pav. Fl. Per I (1798) 32 t. 51 fig b.

Peperomia repens Kth. in H. B. K. Nov. gen. I (1815) 65; Gris. Fl. (1859) 165. (Symb.).

St. Eustatius: Bottom of the Quill 300 M.: n. 434 B.

Antill., Amer. cont. austral. (Symb.).

Peperomia urocarpa Fisch. et Mey. Ind. Sem. Hort. Petrop. IV (1837) 42.

Saba: Mountain 800 M.: n. 1825 B., 594, 647.

Antill., Amer. cont. trop. (Symb.).

81. Batidaceae.

2362. **Batis** Linn.

Batis maritima Linn. Syst. X ed. II (1759) 1380; Gris. Fl. 61; Duss 92; Millspaugh 486. Wild banana.

St. Martin: near Filipsburg: n. 2338 B.; road near Fort Amsterdam: n. 47.

I also saw Batis maritima: near Simsonsbayvillage; Oysterpond; Green Key.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida, Baham., Antill., Amer. cont. trop. orient., Californ., Ins. Sandw. (Symb.).

63. Ulmaceae.

1898. **Celtis** Linn.

Celtis Iguanacea Sarg. Silva VII (1895) 64.

Celtis aculeata Sw. Prodr. (1788) 53; Gris. Fl. 149; Duss 152; Millspaugh 482. Snaky.

St. Eustatius: Top of the Quill 400 M.: n. 219 B.; Bottom of the Quill 300 M.: n. 895 B.; top of Signalhill 225 M.: n. 1029 B.; Red Cliff—Tumbledowndickbay: n. 229.

Saba: Bottom—Marypoint 300 M.: n. 1476 B.; Windwardside: n. 1950 B.; Springbaygut: n. 2116 B.

St. Martin: from Filipsburg to Guanabay: n. 2389 B., 2399 B.; from Filipsburg to Belvedere: n. 2572 B.; Nakedboyhill 50—200 M.: n. 2680 B.; between Belvedere and Oysterpond: n. 3079 B.; Mount Paradis 100—200 M.: n. 3293 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

1902. **Trema** Lour.

Trema Lamarckianum Bl. in Mus. Bot. Lugd. Bat. II (ca 1853) 58.

Sponia Lamarckiana Dcne. in Nouv. Ann. Mus. Paris III (1834) 498; Gris. Fl. 150; Duss 153.

St. Eustatius: Gilboohill 150 M.: n. 1123 B.

Saba: Hellsgate—Marypoint: n. 2040 B.

Bermud., Baham., Antill. (Symb.).

Trema micranthum Bl. in Mus. Bot. Lugd. Bat. II (ca 1853) 58; Millspaugh 482 (?).

Sponia micrantha Dcne. in Nouv. Ann. Mus. Paris III (1834) 498; Gris. Fl. 150; Duss 152.

St. Eustatius: Top of the Quill 400 M.: n. 186 B., 308 B.

Saba: Gainbygut: n. 292, 293; Laddergut: n. 130, 294.

St. Croix ex Millspaugh.

Florida austr., Antill., Amer. cont. trop. (Symb.).

64. Moraceae.

1931. **Dorstenia** Linn.

Dorstenia contrajerva Linn. Spec. (1753) 121; Gris. Fl. 154; Duss 159.

St. Martin: Mount Paradis 300—400 M.: n. 3344 B.

Antill., from Mexico to Peru. (Symb.).

1946. **Artocarpus** Linn.

Artocarpus incisa Linn. f. Suppl. (1781) 411.

Artocarpus communis Forst. Char. Gen. (1776) 100. Bread fruittree.

Cultivated. [Ins. Pacif.] (Symb.).

1961. **Ficus** Linn.

Ficus Krugiana Warb. in Urb. Symb. Antill. III (1903) 487.

Ficus laurifolia Duss Fl. Ant. franç. (1897) 153. (haud Lam.). (Symb.).

St. Eustatius: Top of the Quill 400 M.: n. 207 B.; bottom of the Quill 300 M.: n. 907 B.

Saba: Bottom: n. 1875 B.

Guadeloupe, Dominica, Martinique, St. Vincent. (Symb.).

Ficus omphallophora Warb. in Urb. Symb. Antill. III (1903) 466.

Ficus pertusa Gris. (haud L. f.) Flor. W. I. (1859) 152 (p. p.); Duss 155.

Ficus pallida Gris. (haud Vahl) Fl. W. I. (1859) 151 (p. p.); (Symb.).

Saba: Top of the Mountain 800 M.: n. 1827*a* B.

St. Eustatius, St. Kitts, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada. (Symb.).

Ficus populnea Willd. Sp. Pl. IV (1806) 1141; Gris. Fl. 151; Millspaugh 483.

Ficus laevigata Vahl. Enum. II (1805) 183; Gris. Fl. 151; Millspaugh 483.

St. Eustatius: Slope of the lower part of Signalhill: n. 103 B.; top of the Quill: n. 207 B., 371 B., 378 B.; along roads in Oranjestad: n. 914 B.; along roads near Concordia: n. 1091 B.; near Boven 200 M.: n. 1247 B.; Quill: n. 732, 846, 883; top of the Quill: n. 135, 733; Cliff: n. 738, 788.

Saba: Bottom: n. 2233 B.; from Windwardside to Hellsgate: n. 1681 B.

St. Martin: in a garden in Filipsburg: n. 2552 B.; from Filipsburg to Belvedere: n. 2577 B.; Marigotroad near Marigot: n. 2820 B.; Lowlands: n. 3284 B.; Mount Paradis 100—200 M.: n. 3297 B.; 300—400 M.: n. 3324 B.; Mary's Fancy: n. 705; Centryhill: n. 888; Prince quarter: n. 838.

St. Croix ex Millspaugh.

Baham., Antill. (Symb.).

Ficus Urbaniana Warb. in Urb. Symb. Antill. III (1903) 459.

St. Eustatius: Bottom of the Quill 300 M.: n. 897 B.; Boven: n. 2331, 2371; Quill: n. 2322; locality unknown: n. 2395.

Saba: Gut between Hellsgate and Masticgut 300—400 M.: n. 2026 B.; Springbaygut: n. 2080 B.

St. Martin: Point Blanche (coll. George): n. 2495 B.; Mount Paradis 150—400 M.: n. 3200 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3423 B.; John Ednyhill: n. 2347.

St. Croix. (Symb.).
Guadeloupe, Martinique, St. Vincent. (Symb.).

1971. **Cecropia** Linn.

Cecropia peltata Linn. Syst. X. ed. II (1759) 1286; Gris. Fl. 153; Millspaugh 498. Wild papaw.

St. Eustatius: Quill: n. 254 B.: Bottom of the Quill 300 M.: n. 904 B., 955 B., 105 H.; Quill: n. 243, 219.

Saba: Mountain near Windwardside 600 M.: n. 2158 B. locality unknown: n. 192 L.

St. Croix ex Millspaugh.

Antill., Venezuela, Guiana. (Symb.).

65. Urticaceae.

1978. **Urera** Gaudich.

Urera caracasana Gris. Flor. W. I. (1859) 154; Duss 161.

Urera alceaefolia Gaudich. in Freyc. Voy. (1826) 479.

St. Eustatius: Bottom of the Quill 300 M.: n. 438 B., 903 B., 909 B., 130 H., 222 G.

Saba: Mountain 6—800 M.: n. 1949; Hellsgategut: n. 1950; locality unknown: n. 194 L.

Antill., Amer. cont. trop. (Symb.).

1982. **Fleurya** Gaudich.

Fleurya aestuans Gaudich. in Freyc. Voy. (1826) 497; Gris. Fl. 154; Duss 160; Millspaugh 483. Stinging nettle.

St. Eustatius: Glassgut near Oranjestad: n. 47 B.: along roads in Oranjestad: n. 1079 B.; Oranjestad: n. 2832; locality unknown n. 135 G.

Saba: near the Sulphurmines: n. 1703 B.; locality unknown: n. 154 L.

I also saw Fleurya aestuans: Windwardside.

St. Martin: Milldrumhill in plantations 300 M.: n. 3132 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop., Afr. trop., Ind. Sundan. (Symb.).

1984. **Pilea** Lindl.

Pilea microphylla Liebm. in Vidensk. Selsk. Skr. Kopenh. V. Ser. Vol. II (1851) 286; Gris. Fl. 155; Duss 161.

Adicea microphylla O. Ktze. Rev. II (1891) 622; Millspaugh 483.

Pilea muscosa Lindl. Coll. Bot. (1821.) t. 4. Lace plant.

St. Eustatius: Signalhill 200 M.: n. 137 B.; near Maryglory 150 M.: n. 1156 B.; in a garden in Oranjestad: n. 1269 B.; Cultuurvlakte: n. 1059; Signalhill: n. 1037; Boven: n. 1058; locality unknown: n. 150 G., 301 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1330 B.; slope of the Mountain near St. Johns 250 M.: n. 1733 B.; Windwardside: n. 1900 B.; Laddergut 0—200 M.: n. 2020 B.; between Hellsgate and Mastiegut: n. 2072 B.; Mountain near Windwardside 600 M.: n. 2173 B.; Ladder: n. 1038; Greathill: n. 1039; Crespeen-Rendez-vous 400 M.: n. 1026; locality unknown: n. 142 L.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2900 B.; Mount Paradis 300—400 M.: n. 3235*a* B.

St. Croix ex Millspaugh.

Florida austr., Bermud., Baham., Antill., Amer. cont. trop. (Symb.).

Pilea obtusata Liebm. in Vidensk. Selsk. Skr. Kopenh. V Ser. Vol. II (1851) 300.

Pilea pubescens Gris. Flor. W. I. (1859) 159 (non Liebm.); (Symb.).

Saba: Top of the Mountain 800 M.: n. 1783*a* B., 1786*a* B., 2218*a* B.

Portorico, Montserrat, Martinique. (Symb.).

Pilea parietaria Bl. Mus. Bot. Lugd. Bat. II (1856) 48; Gris. Fl. 156.

Pilea ciliaris Wedd. in Ann. Sc. nat. III Sér. XVIII (1852) 209; Gris. Fl. 156.

Saba: Top of the Mountain 800 M.: n. 1800 B.

Antill., Guatemala, Venezuela. (Symb.).

Pilea semidentata Wedd. in Ann. Sc. nat. III Sér. XVIII (1852) 215; Gris. Fl. 157.

Pilea elegans Wedd. in Ann. Sc. nat. III Sér. XVIII (1852) 215; Gris. Fl. 157.

St. Eustatius: Top of the Quill 400 M.: n. 175 B., 340 B., 351 B., 368 B.; slope of the Quill near Bengalen 150 M.: n. 685 B.; Quill: n. 244, 1102, 192 G., 273 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1338 B.; from Marypoint to Bottom: n. 2063 B.; Gainbygut: n. 1190.

Hispaniola, Portorico, St. Thomas, Guadeloupe, Dominica, Martinique. (Symb.).

1990. **Boehmeria** Jacq.

Boehmeria ramiflora Jacq. Enum. Pl. carib. (1760) 31; Gris. Fl. 160; Duss 163.

St. Eustatius: Bottom of the Quill 300 M.: n. 447 B.; Bengalen: n. 1152, 1172, 1202, 1222, 1242; Quill: n. 1192, 1225, 1233.

Saba: Mountain 800 M.: n. 2219 B.

Guadeloupe, Dominica, Martinique, St. Vincent, Grenada, Barbados. (Herb. Krug et Urban.).

2009. **Rousselia** Gaudich.

Rousselia humilis Urb. in Symb. Antill. V (1905) 205.

Rousselia lappulacea Gaudich. in Bot. Freyc. Voy. (1826) 503; Gris. Fl. 160.

Saba: from Hellsgate to the Sulphurmines: n. 1669*a* B.

Baham., Antill. (Symb.).

67. Loranthaceae.

2089. **Phoradendron** Nutt.

Phoradendron trinervium Gris Flor. W. I. (1860) 314; Duss 328.

St. Eustatius: Signalhill 200 M.: n. 135 B., 1048 B.; slope of the Quill near Bengalen 100 M.: n. 672 B.; gut near Fort de Wind 50 M.: n. 843 B.; Cultuurvlakte: n. 26; Red Cliff: n. 14; White Wall: n. 13; locality unknown: n. 209 G.

Saba: Paris 400 M.: n. 1371 B.; Saddle: n. 1660 B.; Paris 2—400 M.: n. 27.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2888 B.; hills on the eastern side of Cul de Sac: n. 3443 B.

Antill., Costarica. (Symb.).

72. Olacaceae.

2129. **Schoepfia** Schreb.

Schoepfia Schreberi J. F. Gmel. Syst. (1791). 376.

St. Eustatius: Top of the Quill 400 M.: n. 201 B., 364 B., 375 B., 377 B.; inner slope of the Quill 350 M.: n. 1226 B.

Saba: Bottom 200 M.: n. 1447 B.; Springbaygut: n. 2085 B., 2125 B.; Wellgut: n. 31.

Antill., Mexico? San Salvador? Venezuela. (Symb.).

74. Aristolochiaceae.

2174. Aristolochia Linn.

Aristolochia odoratissima Linn. Spec. (1763) 1362.

Cultivated. [Jamaica.] (Ind. Kew.).

Aristolochia trilobata Linn. Spec. (1753) 960; Gris. Fl. 299; Duss 314; Millspaugh 484.

St. Martin: Mount Paradis 300—400 M.: n, 3337 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. cent. and austr. trop. (Symb.).

77. Polygonaceae.

2209. Coccoloba Linn.

Coccoloba diversifolia Jacq. Enum. Syst. (1760) 19; Millspaugh 484.

Coccoloba punctata Gris. (non L.) Flor. W. I. (1859) 163.

Coccoloba barbadensis Jacq. Enum. Syst. (1760) 37; Duss 166.

Coccoloba diversifolia Gris. (non Jacq.) pr. p. Flor. W. I. (1859) 163 (Symb.). Redwood.

St. Eustatius: Top of the Quill 400 M.: n. 179 B., 210 B., 312 B.; slope of the Quill on the side of White Wall 200 M.: n. 1172 B.; Boven: n. 37; Little Mountain—Red Cliff: n. 36, 38, 156; top of the Quill: n. 28; Gilboohill: n. 25.

Saba: lower part of the Bottom Mountain 250 M.: n. 1418 B.; Windwardside—Hellsgate: n. 1665 B.; St. Giles: n. 1860 B.; Mountain near Windwardside 600 M.: n. 2175 B.; Paris—Greathill: n. 29, 30, 31; Peperpot: n. 24; locality unknown: n. 340 L.

St. Croix ex Millspaugh.

Baham., Antill., Curaçao. (Symb.).

Coccoloba Krugii Lindau Mon. Cocc. (1892) 145.

St. Martin: near Mulletpond: n. 2756 B.

Anguilla Boldingh.

Baham., Portorico, Barbuda. (Symb.).

Coccoloba nivea Jacq. Enum. Syst. (1760) 19; Gris. Fl. 163; Millspaugh 484.

Coccoloba excoriata Linn. Spec. (1762) 524; Duss 168. Sugarygrape.

St. Eustatius: Quill: n. 142; from Signalhill to Venusbay: n. 964 B.

Saba: Boobyhill 300 M.: n. 1582 B.; Windwardside—Hellsgate: n. 1688 B.; Springbaygut: n. 2087 B.; Windwardside: n. 2316 B.; Bottom: n. 187, 188, 189; locality unknown: n. 101 L.

St. Martin: from Filipsburg to Belvedere: n. 2579 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2961*a* B.; top of the hill at the northern side of Cul de Sac 200—300 M.: n. 2993 B.; Mount Paradis 300—400 M.: n. 3228 B., 3319 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3420 B.; John Ednyhill: n. 3.

I also saw Coccoloba nivea: along roads near Grande Case.

St. Croix ex Millspaugh.

Jamaica, Hispaniola, Portorico, St. Thomas, St. Barthélemy, Antigua, Guadeloupe, Martinique, Barbados (culta), Grenada, Tobago, Trinidad. (Symb.).

Coccoloba obtusifolia Jacq. Enum. Syst. 19.

Coccoloba punctata Griseb. (non L.) pr. p. Flor. W. I. (1859) 163.

Coccoloba punctata Griseb. γ *microstachya* in Flor. W. I. (1859) 163; (Symb.).

Saba: Boobyhill: n. 1569 B., 1571 B.

Baham., Antill. (Symb.).

Coccoloba uvifera Jacq. Enum. Syst. 19; Gris. Fl. 161; Duss 165; Millspaugh 484. Sea grape.

St. Eustatius: Seashore near Oranjestad: n. 17 B.; top of the Quill 400 M.: n. 263 B.; slope of the lower part of the Quill near Bengalen: n. 717 B.; along roads in Oranjestad: n. 1057 B.; near White Wall: n. 1257 B.; Concordiabay: n. 183; Venusbay: 185; locality unknown: n. 120 H., 198 G.

I also saw Coccoloba uvifera: slope of the Quill on the side of White Wall.

Saba: Paris 400 M.: n. 1370 B.; Bottom: n. 1988 B.; Ladder: n. 186; locality unknown: n. 360 L.

I also saw Coccoloba uvifera: Green Island.

St. Martin: Guanabay: n. 2432 B.; at the seashore near Simsonsbay village: n. 3032 B.

I also saw Coccoloba uvifera in Lowlands; Marigothill to Marigot.

St. Croix ex Millspaugh.

Bermud., Florida, Baham., Antill., Mexico, Amer. centr., Venezuela, Guiana. (Symb.).

2205. **Antigonon** Endl.

Antigonon cinerascens Mart. et Gal. in Bull. Ac. Brux. X. 14. Cultivated. [from Mexico to Guatemala.] (Symb.).

Antigonon leptopus Hook. et Arn. Bot. Beech. (1841) 308 t. 69; Gris. Fl. 164; Duss 612. Coralita.

St. Eustatius: in a garden in Oranjestad: n. 1071 B., 18 H., 21 G.

Saba: Windwardside: n. 1931 B.; Bottom: n. 2242 B.; locality unknown: n. 46 L., 299 L.

St. Martin: near Bethlehem: n. 2670 B.

Jamaica. (Gris. Fl.) Cultivated and escaped.

78. Chenopodiaceae.

2223. **Chenopodium** Linn.

Chenopodium ambrosioides Linn. Spec. (1753) 219; Gris. Fl. 60; Duss 51; Millspaugh 485. Wormbush.

St. Eustatius: along roads in Oranjestad: n. 938 B.; in a garden in Oranjestad: n. 1085 B.; locality unknown: n. 5 G., 5 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1921 B., 1301 B.; Bottom: n. 1846 B.; Laddergut 0—200 M.: n. 1955 B.; seashore near Forthbaylanding: n. 2149 B.; Paris: n. 223; Bottom: n. 224; locality unknown: n. 235 L.

St. Martin: along roads from Marigot to Grande Case: n. 3355 B.

St. Croix ex Millspaugh.

Trop. and warmer countries of both hemisph. (Symb.).

Chenopodium murale Linn. Spec. (1753) 219; Gris. Fl. 60; Duss 51; Millspaugh 485. Sprainbush.

St. Eustatius: along roads in Oranjestad: n. 578 B.; locality unknown: n. 9 G., 9 H.; seashore: n. 244; Village: n. 243.

St. Martin: from Filipsburg to Guanabay: n. 2344*a* B.

St. Croix ex Millspaugh.

Baham., Antill., indig. in the Old world. (Symb.).

2257. **Salicornia** Linn.

Salicornia herbacea Linn. Spec. (1762) 5.

St. Martin: near Mulletpond: n. 2749 B.

Anguilla Boldingh.

Amer. sept., Europa, Afr., Asia. (Symb.).

79. Amarantaceae.

2292. Celosia Linn.

Celosia argentea Linn. Spec. (1753) 205.

Cultivated. [Antill., Amer., Afr., Asia trop.] (Symb.).

Celosia nitida Vahl Symb. II (1791) 44; Gris. Fl. 62; Duss 53; Millspaugh 485.

St. Martin: near Bethlehem: n. 2666 B.; Marigotroad: n. 2803*a* B.

Florida austral., Antill., Mexico, Calif. peninsula, Amer. centr. (Symb.).

2299. Amarantus Linn.

Amarantus gracilis Desf. Tabl. I ed. (1804) 43.

Euxolus caudatus Moq. in DC. Prodr. XIII. II (1849) 247; Gris. Fl. 68; Millspaugh 486.

Amarantus caudatus Linn. Spec. (1753) 990.

St. Eustatius: in a garden: n. 547.

St. Martin. (Symb.).

St. Croix ex Millspaugh.

Baham., Antill., Bonaire, Curaçao, trop. countries of both hemisph. (Symb.).

Amarantus paniculatus Linn. Spec. (1762) 1406. Princeplum. Cultivated. [Baham., Guiana., trop. countries of both hemisph.] (Gris. Fl.).

Amarantus polygonoides Linn. Pl. Jam. Pugil. II. (1759) 27; Millspaugh 486.

Amblogyne polygonoides Raf. Fl. Tellur III (1836) 42; Gris. Fl. 68; Duss 58. White polly.

St. Eustatius: near Maryglory 150 M.: n. 1135 B.; locality unknown: n. 19 G.

Saba: Bottom: n. 559.

St. Martin: from Filipsburg to Guanabay: n. 2406 B.; in an orchard near Bellevue: n. 2839 B.; between Mount Vernon and Orientbay: n. 2931 B., 3360 B.; Tintamarre: n. 3384*a* B., 3393 B.; near Filipsburg: n. 595.

St. Croix ex Millspaugh.

Florida, Key, Baham., Antill., Aruba, Curaçao. (Symb.).

Amarantus spinosus Linn. Spec. (1753) 991; Gris. Fl. 68; Duss 58; Millspaugh 486.

St. Eustatius: along roads in Oranjestad: n. 1066 B.; locality unknown: n. 18 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1323 B.; Bottom 200 M.: n. 1454 B.; Windwardside: n. 1918 B., 2327*a* B.; Bottom: n. 568, 569; locality unknown: n. 252 L.

St. Martin: Mount Paradis 100—200 M.: n. 3295 B.

St. Croix ex Millspaugh.

Bermud., Baham., Amer. cont., Afr. trop., Asia trop. to Japon. and N. Guinea. (Symb.).

Amarantus tristis Linn. Spec. (1753) 989; Gris. Fl. 69; Duss 59; Millspaugh 486. Calaloe.

Amarantus gangeticus Linn. Syst. ed. X. (1759) 1268.

St. Eustatius: in a garden in Oranjestad: n. 84 B.; along roads in Oranjestad: n. 551 B.; Cultuurvlakte: n. 576; in a garden: n. 575; locality unknown: n. 16 H., 17 G.

Saba: between Bottom and Marypoint 100—200 M.: n. 1462 B.: Windwardside: n. 1919 B.; Rendez-vous 400 M.: n. 580; Bottom: n. 577.; locality unknown: n. 33 L.

St. Martin: between Mont Chambord and the Saline: n. 2923 B.: lower part of the Milldrumhill: n. 3163 B.; Marigotroad: n. 552.

St. Croix ex Millspaugh.

Antill., Chile. (Symb.).

2328. **Achyranthes** Linn.

Achyranthes obtusifolia Lam. Enc. I (1783) 545.

Achyranthes aspera Linn. *var. obtusifolia* Gris. Flor. W. I. (1860) 220; Millspaugh 485. Man better man.

St. Eustatius: in a garden in Oranjestad: n. 82 B.; along roads in Oranjestad: n. 1067 B.; lower part of the Quill: n. 515; Cliff at the seashore: n. 514; English quarter: n. 513; along roads in Oranjestad: n. 560 B.; locality unknown: n. 40*a* B., 93 G., 176 H.

I also saw Achyranthes obtusifolia on the seashore near Oranjestad; slope of the Cliff.

Saba: Windwardside—Hellsgate: n. 1671 B.; Windwardside: n. 1885 B.: locality unknown: n. 254 L.

I also saw Achyranthes obtusifolia: Laddergut.

St. Martin: from Filipsburg to Belvedere: n. 2583 B.; Marigotroad: n. 516.

I also saw Achyranthes obtusifolia in Cul de Sac; Marigothill—Marigot: in pastureground near Bellevue.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Afr., Asia-trop., Ins-Paul. (Symb.).

2335. **Alternanthera** Forsk.

Alternanthera crucis Comb. Nov.

Telanthera crucis Moq. in DC. Prod. XIII. II. (1849.) 362; Gris. Fl. 67.

St. Martin: Pointe Blanche: n. 3407 B.

St. Croix. (Herb. Krug et Urban.).

Alternanthera repens O. Ktze Rev. II (1891) 540.

Alternanthera achyrantha R. Br. Prodr. I (1810) 417; Gris. Fl. 67; Duss 57; Millspaugh 485.

St. Eustatius: in a garden in Oranjestad: n. 83 B.; Cultuurvlakte: n. 522; in a garden: n. 521; locality unknown: n. 520.

Saba: between Bottom and Marypoint 100—200 M.: n. 1458 B.; Windwardside: n. 1892 B., 1897 B.; Bottom: n. 524, 525.

St. Martin: along roads from Colebay to Simsonsbay: n. 3246 B.; from Filipsburg to Point Blanche: n. 3407 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3421 B.; Colebayhill: n. 523.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont., Ins. Canar., Hispania. (Symb.).

2338. **Gomphrena** Linn.

Gomphrena globosa Linn. Spec. (1753) 224. Bachelor's button.

Cultivated. [Indig. Asia orient. et austr. from Ins. Sundaic. to Nova Guinea.]. (Symb.).

2339. **Iresine** Linn.

Iresine elatior L. Cl. Rich. ap. Willd. Spec. IV (1806) 766; Gris. Fl. 64; Duss 55; Millspaugh 485. White snowplant.

St. Eustatius: Cultuurvlakte: n. 591; road near Sugarloaf: n. 594; locality unknown: n. 1118 B.

Saba: Peperpot: n. 592.

St. Martin: Colebayhill: n. 593; from Filipsburg to Guanabay: n. 2396 B.; Nakedboyhill 100 M.: n. 2692 B.

St. Croix ex Millspaugh.

Antill., Venezuela, Nova Granata. (Symb.).

Iresine paniculata O. Ktze. Rev. II (1891) 542.

Iresine celosioides Linn. spec. (1763) 1456; Gris. Fl. 64; Duss 55.

St. Eustatius: from Signalhill to Tumbledowndickbay 200 M.: n. 125 B.; deserted plantations near Tumbledowndickbay: n. 151 B.; near Maryglory 150 M.: n. 1164 B.; slope of the Quill: n. 585; Boven: n. 586.

Saba: Bottom: n. 1455 B.; Boobyhill 300 M.: n. 1577 B.; Hellsgate: n. 1693 B.; Ladder: n. 590; Greathill 2—400 M.: n. 589; Rendez-vous: n. 588; locality unknown: n. 146 L.

St. Martin: Marigotroad near Marigot: n. 2817 B.; lower part of the Milldrimhill: n. 3176 B.; Centryhill: n. 587.

Baham., Antill., Amer. cont. from Un. Stat. to Argentinia. (Symb.).

Philoxerus R. Br.

cf. 2339. Iresine Linn. sect. 1.

Philoxerus vermicularis R. Br. Prodr. I (1810) 410; Gris. Fl. 65; Duss 56.

Lithophila vermiculata Uline in Field Col. Mus. Bot. II (1900) 39; Millspaugh. 485.

St. Martin: Oysterpond: n. 9; locality unknown: n. 2523 B.

St. Croix ex Millspaugh.

Florida austr., Key ins., Baham., Antill., Amer. cont. trop., Afr. occid. (Symb.).

Lithophila Sw.

Lithophila muscoides Sw. Prod. Veg. Ind. Occ. (1788) 14; Gris. Fl. 66; Duss 56; Millspaugh 485.

Alternanthera muscoides Benth et Hook. f. Gen. III (1880) 39.

St. Eustatius: Seashore near Oranjestad: n. 20 B.; deserted plantations near Tumbledowndickbay: n. 167 B.; Concordiabay: n. 534; seashore: n. 533, 586*a* B.; Cliff near Fort Amsterdam: n. 532; locality unknown: n. 408*a* B.

Saba: along the seashore near Forthbaylanding: n. 1645 B.; Laddergut: n. 1977 B.; seashore near Flat Point: n. 2136 B.; Ladder: n. 530, 531.

St. Martin: from Filipsburg to Guanabay: n. 2376 B.; along the saltpond near Filipsburg: n. 2449 B.; Green Key: n. 3368 B.; Filipsburg—Fort Amsterdam: n. 536; Guanabay: n. 535.

St. Croix ex Millspaugh.

Baham., Antill., Bonaire, Curaçao, Aruba. (Symb.).

80. Nyctaginaceae.

2347. **Mirabilis** Linn.

Mirabilis Jalapa Linn. Spec. (1753) 177; Gris. Fl. 69; Duss 59; Millspaugh 486. Four o'clock.

St. Eustatius: in a garden in Oranjestad: n. 1253 B., 88, 153 H., 154 H., 239 G., 240 G., 247 G.

Saba: Lowerpart of the Bottom Mountain 250 M.: n. 1417 B.; Peperpot: n. 34, 87; Bottom: n. 33; locality unknown: n. 112 L.

St. Martin. (Symb.).

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop.. (Symb.). Cultivated and escaped.

2349. **Boerhaavea** Linn.

Boerhaavea erecta Linn. Spec. (1753) 3; Gris. Fl, 69; Duss 60; Millspaugh 486.

St. Eustatius: Oranjestad: n. 25, 26, 27; locality unknown: n. 601 B., 86 G., 223 H., 223 G.

St. Martin: from Filipsburg to Guanabay: n. 2405 B.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Amer. cont. (Symb.).

Boerhaavea hirsuta Willd. Phytogr. (1794) 1; Gris. Fl. 69; Duss 60. Potta potta, Hog meat.

Boerhavia repens Linn. Spec. (1753) 3.

St. Eustatius: Seashore near Oranjestad: n. 40 B.; in a garden in Oranjestad: n. 85 B.; Cultuurvlakte: n. 20, 21; locality unknown: n. 87 G., 175 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1508 B; Laddergut 200 M.: n. 1995 B., 22.

St. Martin; along roads from Grande Case to Marigot: n. 3098 B.

St. Croix (Symb.).

Antill., Amer. sept. and centr. (Symb.).

Boerhaavea paniculata L. Cl. Rich. in Act. Hist. Nat. Par. I (1792) 105; Gris. Fl. 69; Duss 60; Millspaugh 487.

St. Eustatius: in a garden in Oranjestad: n. 524 B.; Bengalen: n. 632 B.; along roads near Glassbottle: n. 872 B.; Fairplay: n. 61; Oranjestad: n. 3; locality unknown: n. 1011 B., 1019 B., 62, 64.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1347 B.; along roads 200 M.: n. 1384 B.; between Bottom and

Marypoint 100—200 M.: n. 1534 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2056 B.; locality unknown: n. 31 L.

St. Martin: Fort Willem 0—50 M.: n. 2537 B.; Fort Amsterdam: n. 39; road to Guanabay: n. 4; locality unknown: n. 2305 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. centr. and Austral. (Symb.).

Boerhaavea scandens Linn. Spec. (1753) 3; Gris. Fl. 69.

St. Martin: Colebay (Coll. George): n. 2516 B.; near Fort Amsterdam: n. 10.

Anguilla Boldingh.

Baham., Antill., Curaçao, Amer. cont. from Arizona to Peru. (Symb.).

2354. **Pisonia** Linn.

Pisonia aculeata Linn. Spec. (1753) 1026; Gris. Fl. 70; Duss 61; Millspaugh 487. Cockspur.

St. Eustatius: from Little Mountains to Venusbay: n. 957 B.; along roads near Oranjestad: n. 1002 B.; slope of the hills near Concordiabay: n. 89; Venusbay: n. 35.

Saba: lower part of the Bottom Mountain 300 M.: n. 1425 B.; Boobyhill: n. 1610*a* B.; Rendez-vous: n. 90; Quarter 300 M.: n. 36; locality unknown: n. 148 L.

I also saw Pisonia aculeata: Springbaygut; Flat Point.

St. Martin: Princequarter (Coll George): n. 2467 B.; from Filipsburg to Belvedere: n. 2556 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2873 B.; Colebayhill: n. 32.

I also saw Pisonia aculeata in: Lower part of Milldrumhill; Mount Paradis; along roads near Nakedboyhill.

St. Croix ex Millspaugh.

Florida austral., Baham., Antill., trop. contr. of both hemisph. (excl. Afr. cont.) (Symb.).

Pisonia fragrans Dumont Cours. Bot. Cult. II ed. vol. VII (1814) 114.

Pisonia obtusata Sw. Flor. III (1806) 1960 (non Jacq. 1798); Gris. Fl. 71 (p. p.) (Symb.); Duss 62.

Pisonia inermis Gris. Flor. W. I. (1859) 7 (p. p., non Jacq.) (Symb.); Millspaugh 487. Black Loblolly tree.

St. Eustatius: along the road from Oranjestad to White Wall: n. 4 B.; top of the Quill 400 M.: n. 337 B.; 450 M.: n. 357 B.,

362 B.; inner slope of the Quill 350 M.: 425 B; top of the Quill 500 M.: n. 478 B., 489 B.; slope of the Quill near Bengalen: n. 707 B.; 200 M.: n. 738 B.; from Signalhill to Venus bay: n. 959*a* B; near Boven 200 M.: n. 1236*a* B.; Cultuurvlakte—Pango: n. 9; Cultuurvlakte: n. 20; locality unknown: n. 180 G., 17.

Saba: Marypoint: n. 37.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2649 B.; Nakedboyhill 50—200 M.: n. 2704 B.; lower part of the hills between Mount Chambord and Mount Vernon: n. 2918 B., 2921 B.; between Mount Vernon and Orientbay: n. 2927 B.; along roads from Grande Case to Marigot: n. 3091 B.; Milldrumhill 300—400 M.: n. 3186 B.; Mount Paradis 200—300 M.: n. 3312 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3418 B.; near Fort Amsterdam: n. 1; John Ednyhill: n. 23.

I also saw Pisonia fragrans on the hill between Mont des Accords and Centryhill; near Saline.

St. Croix ex Millspaugh.

Florida austr., Antill., Amer. centr., Columbia, Guiana. (Symb.).

Pisonia subcordata Sw. Prodr. (1788) 60; Gris. Fl. 70; Duss 61; Millspaugh 487. Mappoo.

St. Eustatius: Seashore near Oranjestad: n. 25 B.: Top of the Quill 400 M.: n. 185 B., 370 B.; in deserted plantations at the seashore near Bengalen: n. 596 B.; slope of the lower part of the Quill near Bengalen: n. 714 B.; locality unknown: n. 181 G., 322 H.

I also saw Pisonia subcordata: in Signalhill 200 M.; top of the Cliff between Oranjestad and White Wall; gut near Fort de Wind; Tumbledowndickbay—Venusbay; Bergje.

Saba: Between Bottom and Marypoint 350 M.: n. 1498 B.

I also saw Pisonia subcordata: Forthbaygut; Tentgut; Sadlle; Crispeenhill; Bottom—Windwardside; Gilesgut; Springbaygut; Flatpoint.

St. Martin: from Filipsburg to Guanabay: n. 2373 B.; Prince quarter (Coll. George.): n. 2471 B.

I also saw Pisonia subcordata: along roads near Bethlehem; along roads from Filipsburg to Nakedboyhill; Marigothill—Marigot; Nakedboyhill; Fort Willem; hills on the northern side of Cul de Sac; along roads from Filipsburg to Simsonsbay; along roads near Grande Case; Vallée des Pères; lower part of Milldrumhill; Mount Paradis 300—400 M.; Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Portorico, St. Thomas, St. Barthélemy, St. Kitts, Antigua, Guadeloupe, Désirade, Martinique. (Symb.).

83. Phytolaccaceae.

2370. **Rivina** Linn.

Rivina humilis Linn. Spec. (1753) 121; Millspaugh 486.

Rivina laevis Linn. Mant. I (1767) 41; Gris. Fl. 59; Duss 49. Jumbypepper.

St. Eustatius: In a deserted plantation near Tumbledowndickbay: n. 170 B.; Bengalen: n. 611 B., 636 B.; slope of the Quill near Bengalen 50—200 M.: n. 646 B.; along roads in Oranjestad: n. 939 B.; Village: n. 176; locality unknown: n. 161 G., 211 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1339 B.; along roads 200—300 M.: n. 1713 B.; Laddergut 200 M.: n. 1993 B.; Peperpot: n. 173; Bottom: n. 174, 175; locality unknown: n. 32 L.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2904 B.; along roads in Cul de Sac: n. 2997 B.

I also saw Rivina humilis in Mount Paradis 100—200 M.; gut from Bethlehem to Cul de Sac.

St. Croix ex Millspaugh.

Florida austr., Baham., Antill., Amer. cont. trop. et subtrop. (Symb.).

Villamilla R. et P.

cf. 2370. Rivina Linn. Sect. 2.

Villamilla octandra Hook f. in Benth. et Hook. Gen. Plant III (1880) 81; Millspaugh 486.

Rivina octandra Linn. Cent. plant. II (1756) 9; Gris. Fl. 59; Duss 50. White hoop.

St. Eustatius: deserted plantations near Tumbledowndickbay: n. 169 B.; slope of the hills near Concordiabay: n. 191, 192, 194; Red Cliff—Tumbledowndickbay: n. 193: locality unknown: n. 323 H.

Saba: Top of the Cliff near the seaside of Boobyhill: n. 1610 B.; Hellsgate: n. 1698 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2053 B.; Crispeen Rendez-vous: n. 127; Hellsgate n. 177, 178, 179; locality unknown: n. 236 L.

St. Martin: Cul de Sac along roads: n. 2966 B.; Centryhill: n. 126; French frontier: n. 190.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

2371. **Petiveria** Linn.

Petiveria alliacea Linn. Spec. (1753) 342; Gris. Fl. 59; Duss 50; Millspaugh 486.

St. Eustatius: near Tumbledowndickbay: n. 139 B.; locality unknown: n. 238 H., 260 G.

Saba: Windwardside: n. 1591 B.; Laddergut: n. 2001 B.; Peperpot: n. 152, 153; Rendez-vous 400 M.: n. 151; Bottom: n. 150; locality unknown: n. 72 L., 328 L.

St. Martin: Marigothill: n. 2615 B.; gut from Bethlehem to Cul de Sac: n. 3422 B.

St. Croix ex Millspaugh.

Florida austr., Antill., Amer. cont. trop. (Symb.).

2372. **Microtea** Sw.

Microtea debilis Sw. Prod. Veg. Ind. Occ. (1788). 53; Gris. Fl. 59; Duss 49; Millspaugh 486.

St. Eustatius: in a garden in Oranjestad: n. 89 B.; along roads in Oranjestad: n. 569 B., 1086 B.; Oranjestad: n. 195; locality unknown: n. 43 G., 22.

St. Martin: From Filipsburg to Belvedère: n. 2588 B.

St. Croix ex Millspaugh.

Antill., Panama to Peru, Bras. equat. and Guiana. (Gris. Fl.).

2380. **Phytolacca** Linn.

Phytolacca icosandra Linn. Syst. X. ed. II (1759) 1040; Gris. Fl. 58; Duss 49.

Saba: Mountain 800 M.: n. 2214 B.; locality unknown: n. 169 L., 175 L., 209 L.

St. Martin: Mount Paradis 300—400 M.: n. 3211 B.

Baham., Antill., Amer. cont. trop. (Symb.).

84. Aizoaceae.

2387. **Mollugo** Linn.

Mollugo verticillata Linn. Spec. (1753) 89; Gris. Fl. p. 56.

St. Eustatius: along roads in Oranjestad: n. 1098 B.; slope of the Quill near Bengalen: n. 196.

Antill., Amer. cont. (Symb.).

2394. **Sesuvium** Linn.

Sesuvium portulacastrum Linn. Syst. X ed. II (1759) 1058; Gris. Fl. 57; Duss 47; Millspaugh 487.

St. Eustatius: Seashore near Bengalen: n. 585 B.; near White Wall: n. 851 B., 855 B.; near Maryglory 150 M.: n. 1162 B.; seashore near Turtlebay: n. 93, 94.

Saba: near the Sulphurmines: n. 1703*a* B.; seashore near Laddergut: n. 2132 B.

St. Martin: near Filipsburg: n. 2336*a* B.; near Mulletpond: n. 2763*a* B.; Tintamarre: n. 3389 B.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Curaçao, trop. and subtr. countries of both hemisph. (Symb.).

2395. **Trianthema** Linn.

Trianthema portulacastrum Linn. Spec. (1753) 223.

Trianthema monogynum Linn. Mant. I (1767) 69; Gris. Fl. 58; Duss 48; Millspaugh 487.

St. Eustatius: in a garden in Oranjestad: n. 1058*a* B., 104, 90 G.

St. Martin: Nakedboyhill: n. 2707*a* B.; road near Simsonsbay: n. 3247*a* B.; Colebayhill: n. 103.

St. Croix ex Millspaugh.

Key, Antill., Curaçao, Amer. cont. trop., Afr., and Asia trop. (Symb.).

85. Portulacaceae.

2406. **Talinum** Adans.

Talinum paniculatum Gärtn. Fruct. II (1791) 219 t. 128.

Talinum patens Willd. Spec. II (1800) 863 (var *z*) (Symb.); Gris. Fl. 57; Duss 46; Millspaugh 487.

Saba: Laddergut 0—200 M.: n. 1952 B.; Peperpot: n. 40; locality unknown: n. 124 L.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.).

Talinum triangulare Willd. Spec. II (1800) 862; Gris. Fl. 56; Duss 46; Millspaugh 487.

St. Eustatius: Bengalen: n. 612 B.; along roads in Oranjestad: n. 1132 B.; near Boven 200 M.: n. 1241 B.; locality unknown: n. 63 G.

Saba: near the Sulphurmines: n. 1701 B.; Mountain 400 M.: n. 1768 B.; Bottom: n. 2232 B.; locality unknown: n. 256 L.

St. Martin: from Filipsburg to Belvedere: n. 2569 B.; from Belvedere te Oysterpond: n. 3044 B.; Prince quarter: n. 42; Cul de Sac: n. 41; locality unknown: n. 3613 B.

St. Croix ex Millspaugh.
Antill., Amer. austr. (Symb.).

2421. **Portulaca** Linn.

Portulaca halimoides Linn. Spec. (1762) 639; Gris. Fl. 57; Duss 47; Millspaugh 488. Silk cotton purslane.

St. Eustatius: in a garden in Oranjestad: n. 86 B.; along roads in Oranjestad: n. 549 B, 1080 B.; seashore near White Wall: n. 853 B.; old Fort: n. 67; White Wall: n. 66; locality unknown: n. 339 H.

St. Martin: Colebay (coll. George): n. 2522 B.; between Mount Vernon and Orientbay: n. 2943 B.; Green Key: n. 3362 B.; Fort Amsterdam: n. 57; Guanabay: n. 58.

Anguilla Boldingh.
St. Croix ex Millspaugh.
Antill., Mexico. (Symb.).

Portulaca oleracea Linn. Spec. (1753) 445; Gris. Fl. 57; Duss 46; Millspaugh 487.

St. Eustatius: Seashore near Oranjestad: n. 41 B.; in a garden in Oranjestad: n. 88 B., 521 B; Bengalen: n. 635 B.; slope of the lower part of the Quill near Bengalen: n. 722 B.; seashore near Venusbay: n. 966 B.; near Boven: n. 200 M.; seashore: n. 72, 73; locality unknown: n. 28 G., 29 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1329 B.; Windwardside—Hellsgate: n. 1664 B.; near Flat Point: n. 2130 B.; Windwardside: n. 2320 B.; locality unknown: n. 80 L.

St. Martin: from Filipsburg to Guanabay: n. 2413 B.; along roads near Prince quarter: n. 2912 B.; between Mount Vernon and Orientbay: n. 2940 B.; from Belvedere to Oysterpond: n. 3052 B.; Tintamarre: n. 3387 B.; locality unknown: n. 68.

I also saw Portulaca oleracea: in pastureground near Belvedere; Nakedboyhill.

Anguilla Boldingh.
St. Croix ex Millspaugh.
Bermud., Baham., Antill., trop. and warmer countries of both hemisph. (Symb.).

Portulaca pilosa Linn. Spec. (1753) 445; Gris. Fl. 57; Duss 47; Millspaugh 487.

Saba: along roads 200 M.: n. 1383 B.; Bottom: n. 2264 B., 2299 B.

St. Martin: I also saw Portulaca pilosa: along roads near Bethlehem.
St. Croix ex Millspaugh.
Florida, Antill., Mexico. (Symb.). Also cultivated.

Portulaca poliosperma Urb. in Symbolae Antillanae IV (1905) 232.
St. Martin: Lowlands: n. 3286*a* B.
Portorico. (Symb.).

Portulaca quadrifida Linn. Mant. I (1767) 73.
St. Eustatius: along roads in Oranjestad: n. 559 B.; locality unknown: n. 1022 B.
St. Martin: along roads from Bethlehem to Mont Chambord: n. 2917 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2917 B.; Marigotroad: n. 79.
Trop. countries of the Old world. (Ind. Kew.).

86. Basellaceae.

2427. **Boussingaultia** H. B. K.

Boussingaultia baselloides H. B. K. Nov. Gen. et Spec. VII (1825) 196 t. 645.
Cultivated. [Amer. trop.] (E. & P.).

87. Caryophyllaceae.

2452. **Drymaria** Willd.

Drymaria cordata Willd. ap. R. et Sch. Syst. V (1819) 406; Gris. Fl. 56; Duss 45; Millspaugh 468. White snow.
Saba: along roads between Bottom and Windwardside 200 M.: n. 1287 B.; Windwardside—Hellsgate: n. 1670 B,; Windwardside: n. 2306 B.; Bottom: n. 200; Peperpot: n. 198; Crispeen—Rendezvous 400 M.: n. 199.

I also saw Drymaria cordata: Laddergut.

St. Croix ex Millspaugh.
Antill., Amer. cont. trop., Afr. and Asia trop. (Symb.).

88. Nymphaeaceae.

2513. **Nymphaea** Linn.

Nymphaea spec.
Cultivated.

94. Menispermaceae.

2574. **Cissampelos** Linn.

Cissampelos Pareira Linn. Spec. (1753) 1031; Gris. Fl. 10; Duss 7; Millspaugh 488.

St. Eustatius: along roads in Oranjestad: n. 574 B.; slope of the Quill near Bengalen 100 M.: n. 667 B.; slope of the lower part of the Quill near Bengalen: n. 710 B.; seashore near White Wall: n. 848 B.; slope of the Quill: n. 55, 56; locality unknown: n. 218 H.

Saba: near the Sulphurmines: n. 1702 B.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2885 B.; Mount Paradis 150—400 M.: n. 3191 B.; locality unknown: n. 3620 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., Afr., Asia trop. (Symb.).

2622. **Hyperbaena** Miers.

Hyperbaena domingensis Benth. in Journ. Linn. Soc. V. Suppl. II (1861) 50.

Cocculus domingensis DC. Syst. I (1818) 528: Gris. Fl. 10; Duss 7.

Pachygone domingensis Eichl. in Flora XLVII (1864) 394.

St. Eustatius: Bottom of the Quill 300 M.: n. 426 B., 891 B., 896 B.; top of the Quill 500 M.: n. 486 B.; slope of the lower part of the Quill near Bengalen: n. 708 B.; seashore: n. 57; Quill; n. 58, 73.

Saba: Springbaygut: n. 2092 B.

Cuba, Jamaica, Hispaniola, Portorico, St. Thomas, Guadeloupe, Dominica, Martinique. (Symb.).

98. Anonaceae.

2729. **Anona** Linn.

Anona montana Macf. Flor. Jam. I (1837) 7; Gris Fl. 4.

St. Eustatius: near Bengalen: n. 1188*a* B., locality unknown: n. 274 H.; slope of Signalhill: n. 21.

Saba: along the Forthgut n. 1638 B.; Ladder: n. 20.

Antill., Guiana. (Symb.).

Anona muricata Linn. Spec. (1753) 536; Gris. Fl. 4; Duss 2; Millspaugh 488. Sour sap.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 54 B.; along the lower part of Signalhill: n. 121 B.; lower part of the slope of the Quill near Bengalen: n. 745 B.; along roads in Oranjestad: n. 1279 B.; locality unknown: n. 89 H., 173 G.

I also saw Anona muricata on the slope of the Quill on the side of White Wall.

Saba: lower part of the Bottom Mountain 300 M.: n. 1438 B.; Bottom: n. 1844 B.; Springbaygut: n. 2078 B.; Marypoint: n. 22; locality unknown: n. 3 L.

I also saw Anona muricata: between Bottom and Marypoint; Fortbaygut; Gilesgut.

St. Martin: Prince quarter (coll. George): n. 2463 B.; from Filipsburg to Belvedere: n. 2593 B.: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2880 B.; lower part of Mount Paradis: n. 3354 B.

I also saw Anona muricata: Marigothill—Marigot; Nakedboyhill; hill on the northern side of Cul de Sac; from Belvedere to Oysterpond; one of the islands in Simsonsbaylagoon; Top of Mount Paradis 400 M.

St. Croix ex Millspaugh.

Antill.; cult. in Amer. trop. Asia trop. and Afr. occ. (Symb.). Also cultivated.

Anona reticulata Linn. Spec. (1757) 537; Gris. Fl. 5; Duss 4; Millspaugh 488. Custard apple.

St. Eustatius: Slope of the Quill 350 M.: n. 1219 B.

Saba: Boobyhill 300 M.: n. 1632*a* B.; Bottom: n. 1842 B.

I also saw Anona reticulata: Laddergut.

St. Croix ex Millspaugh.

Antill.; cult. in Amer., Afr. and Asia trop. (Symb.).

Also cultivated.

Anona squamosa Linn. Spec. (1753) 537; Gris. Fl. 5; Duss 3; Millspaugh 488.

St. Eustatius: in a garden in Oranjestad: n. 525 B.; in deserted plantations at the seashore near Bengalen: n. 595 B.; locality unknown: n. 88 H., 91 G.

I also saw Anona squamosa in Signalhill.

Saba: Bottom: n. 1848 B., 2256 B.

I also saw Anona squamosa: Laddergut, Forthbaygut.

St. Martin: from Filipsburg to Guanabay: n. 2347 B.; Mountain between Mont des Accords and Centryhill: n. 2869 B.; from Belvedere to Oysterpond: n. 3049 B.; Mount Paradis 200—300 M.: n. 3309 B.

I also saw Anona squamosa: along roads from Filipsburg to Nakedboyhill; Margothill—Marigot; near Bellevue; lower part of Milldrumhill; Vallée des Pères; one of the islands in Simsonsbaylagoon.

St. Croix ex Millspaugh.

Antill.; cult. in Amer. cont. trop., Afr., Asia trop. (Symb.). Also cultivated.

102. Lauraceae.

2783. **Persea** Gärtn.

Persea americana Mill. Gard. Dict. VIII ed. (1768).

Persea gratissima Gärtn. f. Fruct. III (1807) 222 tab. 221; Gris. Fl. 280. Duss 298.

Persea Persea Cock. in Bull. Torr. Bot. Club. XIX (1892) 95; Millspaugh 489. Pear tree, Avocado.

St. Eustatius: in deserted plantations near Tumbledowndickbay: n. 141 B., 146 B.; top of the Quill 400 M.: n. 223 B.; slope of the Quill near Bengalen 50—200 M.: n. 652 B.; in a garden near Glassbottle: n. 1210 B.; locality unknown: n. 112 H., 146 G.

Saba: Windwardside: n. 1928 B.; Mountain near Windwardside 600 M.: n. 2153 B.; locality unknown: n. 1565 B., 149 L.

I also saw Persea americana in Laddergut.

St. Martin: along roads near Anse des Pères: n. 3107 B.; Mount Paradis 150—400 M.: n. 3193 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham. Antill., trop. countries of both hemisph., Ind. in Mexico. (Symb.). Also cultivated.

2785. **Phoebe** Nees.

Phoebe elongata Nees. Syst. (1836) 116; Duss 298.

St. Eustatius: Quill: n. 256*a* B., 410 B., 898 B.

Cuba, Hispaniola, Portorico, Guadeloupe, Martinique, St. Vincent, Grenada, Tobago, Trinidad. (Symb.).

2790. **Nectandra** Roland.

Nectandra coriacea Griseb. in Flor. W. I. (1860) 281; Duss 301.

Nectandra Wildenoviana Nees. Syst. (1836) 321. Sweet wood.

St. Eustatius: Top of the Quill 400 M.: n. 221 B., 256 B., 272 B., 288 B., 289 B.; slope of the Quill 350 M.: n. 410 B.; slope of the Quill near Bengalen 50—200 M.: n. 648 B., 680 B., 696 B., 728 B., 751 B.; Bottom of the Quill 300 M.: n. 893 B., 902 B.; lower part of the Hills near Concordia: n. 981 B.; Glassbottle 150 M.: n. 1114 B.; top of the Quill: n. 248; Cliff: n. 243; slope of the Quill: n. 247; Quill: n. 168 G., 116 H.; locality unknown: n. 244, 245.

Saba: Paris 2—400 M.: n. 242; Windwardside: n. 1947 B.

St. Martin: Mountain between Mount des Accords and Centryhill 200—300 M.: n. 2855 B., 2898*a* B.; Milldrumhill 300—400 M.: n. 3125 B.; Mount Paradis 200—300 M.: n. 3306 B., 3320 B.; locality unknown: n. 3584 B.

St. Croix. (Symb.).

Florida, Baham., Antill., Yucatan. (Symb.).

Nectandra Krugii Mez in Jahrb. Bot. Gart. Berl. V (1889) 422.

Nectandra discolor Gris. Flor. W. I. (1860) 282 non Nees. (Symb.). Black sweet wood.

St. Eustatius: Top of the Quill 500 M.: n. 477 B., 487 B.; Quill: n. 1, 2, 3, 4, 16, 19, 20, 22; locality unknown: n. 17, 18, 23, 24, 25, 215, 246.

Saba: Boobyhill 300 M.: n. 1575 B.; Windwardside: n. 1946 B.; near Devilshand: n. 2074 B.; near Flat Point: n. 2140 B.

Portorico, Guadeloupe, Dominica. (Symb.).

104. Papaveraceae.

2852. **Argemone** Linn.

Argemone mexicana Linn. Spec. (1753) 508; Gris. Fl. 13; Duss 8; Millspaugh 489. Thistle.

St. Eustatius: Seashore near Oranjestad: n. 43 B.; Cultuurvlakte: n. 124; locality unknown: n. 20 G., 17 H.

Saba: Bottom: n. 2271 B.; locality unknown: n. 155 L.

St. Martin: I saw this plant: near Filipsburg and in pastureground near Bellevue.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Amer. cont. trop. and from there in trop. countries of the Old world. (Symb.).

105. Cruciferae.

2883. **Lepidium** Linn.

Lepidium virginicum Linn. Spec. (1753) 645; Gris. Fl. 14; Duss 9; Millspaugh 489.

St. Eustatius: along roads near Glassbottle: n. 885 B.; slope of the Quill: n. 340.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1292 B., 1363 B.; Mountain near Windwardside 600 M.: n. 2164 B.; Ladder: n. 342.; Peperpot: n. 341; locality unknown: n. 123 L.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2901 B.; hill on the northern side of Cul de Sac 0—100 M.: n. 3004 B.; Milldrumhill 200—300 M.: n. 3121 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Amer. sept. from Canada to Texas. (Symb.).

2920. **Cakile** Juss.

Cakile lanceolata O. E. Schulz. in Urb. Symb. Antill. III (1903) 504.

Cakile aequalis L'Hérit ap. DC. Syst. II (1821) 430; Gris. Fl. 14; (Symb.); Duss 10; Millspaugh 489.

St. Eustatius: Turtlebay: n. 328.

Saba: between Hellsgate and Marypoint: n. 2044 B.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Columbia. (Symb.).

2949. **Brassica** Linn.

Brassica integrifolia O. E. Schulz in Urb. Symb. Antill. III (1903) 509.

Sinapis brassicata Gris. Flor. W. I. (1859) 14; Millspaugh 489.

Sinapis juncea Eichl. in Mart. Fl. Bras. XIII. 1. (1865) 306. (non L.). (Symb.); Duss 10. Mustard.

St. Eustatius: locality unknown: n. 141 H., 292 G.

Saba: Windwardside: n. 1884 B.; Rendez-vous 400 M.: n. 325, 326; locality unknown: n. 26 L.

St. Croix ex Millspaugh.

Antill.; Indig. in Asia austr. and orient. (Symb.).

107. Capparidaceae.

3087. **Gynandropsis** DC.

Gynandropsis pentaphylla DC. Prodr. I (1824) 238.

Cleome pentaphylla Linn. Spec. (1763) 938; Gris. Fl. 15; Duss 11; Millspaugh 489. Massamby.

St. Eustatius: along roads in Oranjestad: n. 547 B., 933 B.; Cultuurvlakte: n. 205, 185; locality unknown: n. 29 H., 33 G.

Saba: Bottom: n. 1841 B.; locality unknown: n. 153 L.; Bottom: n. 186.

St. Martin: Colebayhill: n. 188; Prince quarter: n. 189.

I also saw Gynandropsis pentaphylla: Mount Paradis 100—200 M.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. calid.; Indig. in Afr. and Asia trop. (Symb.).

3090. **Polanisia** Raf.

Polanisia viscosa DC. Prod. I. (1824) 242.

Cleome graveolens Rafin. in Journ. phys. (1819) 98.

Cleome viscosa Linn. Spec. (1753) 672; Gris. Fl. 16; Duss 12.

Polanisia icosandra Wight et Arn. Prod. (1834) 22; Millspaugh 490. Wild massamby.

St. Eustatius: along roads in Oranjestad: n. 535 B.; locality unknown: n. 28 H., 32 G.

I also saw Polanisia viscosa along the seashore near Oranjestad.

Saba: lower part of the Bottom Mountain 250 M.: n. 1393 B.

St. Martin: from Filipsburg to Guanabay: n. 2401 B.; from Filipsburg to Belvedere: n. 2558 B.; Colebayhill: n. 190.

St. Croix ex Millspaugh.

Antill.; introduced from South. China and Senegamb. (Gris. Fl.).

3101. **Capparis** Linn.

Capparis Breynia Jacq. Sel. Amer. (1763) 161 t. 103; Duss 13.

Capparis amygdalina Lam. Enc. I (1783) 608; Gris. Fl. 17.

St. Eustatius: Gut near Fort de Wind 50 M.: n. 832 B.: from Little Mountain to Venusbay: n. 995 B.; along roads in Oranjestad: n. 1068 B.: slope of the Quill on the side of White Wall 200 M.: n. 1178 B.; Pangohill: n. 168; Little Mountain—Boven: n. 166, 167.

I also saw Capparis Breynia on Signalhill,

Saba: between Bottom and Marypoint: n. 1466 B.; Springbaygut: n. 2120 B.; Windwardside: n. 2319 B.

St. Martin: Prince quarter (coll. George.): n. 2460 B., 2481 B.; Nakedboyhill 50—200 M.: n. 2695 B., 200—265 M.: n. 2730 B., 2731 B.; Marigotroad near Marigot: n. 2815 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2889 B.; gut from Bethlehem to Cul de Sac: n. 3433 B.; near Fort Amstêrdam: n. 143; behind Centryhill: n. 144.

I also saw Capparis Breynia on Mount Paradis 100—200 M.

St. Croix. (Symb.).

Antill., Amer. centr., Nova Granata, Venezuela. (Symb.).

Capparis coccolobifolia Mart. ap. Eichl. in Mart. Fl. bras. XIII. 1. (1865) 284.

Capparis cynophallophora var. latifolia Griseb. Flor. W. I. (1859) 18 (p.p.) (Symb.).

St. Eustatius: in deserted plantations near Tumbledowndickbay: n. 145 B.

St. Martin: Prince quarter (coll. George): n. 2478 B.; Milldrumhill 300—400 M.: n. 3147 B.; near Fort Amsterdam: n. 109; Centryhill: n. 129; Guanabay: n. 108; locality unknown: n. 3612 B.

St. Croix. (Symb.).

Antill., Curaçao, Venezuela. (Symb.).

Capparis cynophallophora Linn. Spec. (1762) 721; Gris. Fl. 18; Duss 13; Millspaugh 490. Mustard tree, Man of war bush.

St. Eustatius: Slope of the lower part of Signalhill: n. 118 B.; seashore near Oranjestad: n. 27 B.; slope of the Quill near Bengalen 200 M.: n. 691 B., 695 B., 734 B.; along roads in Oranjestad: n. 925 B.; from Little Mountain to Venusbay: n. 988 B.; Bengalen: n. 749 B.; near Maryglory 150 M.: n. 1145 B; Seinpost: n. 124; Red Cliff: n. 125; Boven: n. 127; locality unknown: n. 46 H., 191 G.

I also saw Capparis cynophallophora on Signalhill; in a garden in Oranjestad.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1305 B.; along the Forthgut 150—200 M.: n. 1626 B.; along roads 200—300 M.: n. 1714 B.; slope of the Mountain near St. John's: n. 1736 B.; St. Giles: n. 1859 B.; Bottom: n. 1882 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2059 B.; Windwardside: n. 2310 B.; Great Hill: n. 202; Quarter: n. 128.

I also saw Capparis cynophallophora in Springbaygut.

St. Martin: Cul de Sac: n. 2606 B.; near Mulletpond: n. 2772 B.; hills on the eastern side of Cul de Sac: n. 3436 B.

I also saw Capparis cynophallophora: Cul de Sac; Marigothill—Marigot; Nakedboyhill 100—200 M.; near Saline: hills on the northern side of Cul de Sac; along roads from Filipsburg to Simsonsbay; from Belvedere to Oysterpond; lower part of Milldrumhill; Mount Paradis 100—400 M.

Anguilla Boldingh.
St. Croix ex Millspaugh.
Florida austral., Antill., Panama, Amer. austr. (Symb.).

Capparis frondosa Jacq. Enum. (1760) 24; Gris. Fl. 19; Duss 14; Millspaugh 490. Churchblossom.

St. Eustatius: in deserted plantations near Tumbledowndickbay: n. 140 B.; Bottom of the Quill 300 M.: n. 445 B.; slope of the Quill near Bengalen 50 M.: n. 655 B.; hills near Concordia: n. 967 B.; slope of Signalhill: n. 157; Cultuurvlakte: n. 158; near Seinpost: n. 159; Red Cliff: n. 160; Quill: n. 161, 162, 201; Waterrock: n. 162; locality unknown: n. 189 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1334 B.; lower part of the Bottom Mountain 300 M.: n. 1443 B.; Laddergut 200 M.: n. 2007 B.; Peperpot: n. 148, 163; Cresp.—Rendez-vous: n. 164; Marypointgut: n. 152.

I also saw Capparis frondosa in Forthbaygut and Springbaygut.

St. Martin: from Filipsburg to Guanabay: n. 2383 B.; Princequarter (coll. George): n. 2461 B., 2482 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2961 B.; from Belvedere to Oysterpond: n. 3058 B.; Centryhill: n. 145; John Ednyhill: n. 146.

I also saw Capparis frondosa along roads near Bethlehem; Mount Paradis 100—200 M.; lowerpart of Milldrumhill; Nakedboyhill.

St. Croix ex Millspaugh.
Antill., Amer. centr., Nova Granata, Venezuela. (Symb.).

Capparis jamaicensis Jacq. Enum. (1760) 23; Gris. Fl. 18; Duss 13; Millspaugh 490.

St. Eustatius: Slope of the Quill above White Wall 350 M.: n. 3 B.; slope of the lower part of Signalhill: n. 105 B.; top of the Quill 400 M.: n. 305 B.; top of the Quill 500 M.: n. 488 B., 494 B.; near Maryglory 150 M.: n. 1139 B.; near White Wall: n. 1256*a* B.; Boven: n. 133, 134, 135; Greatgut: n. 174.

Saba: Boobyhill 300 M.: n. 1621 B.; St. Giles: n. 1862 B.; Windwardside: n. 155; Wellridge: n. 179, 180; Bottom: n. 222; locality unknown: n. 48 L.

St. Martin: from Filipsburg to Guanabay: n. 2368 B., 2382 B., 2412 B., 2417 B.; Prince quarter (coll. George): n. 2466 B., 2476 B., 2480 B.; Fort Willem 0—50 M.: n. 2539 B.; Nakedboyhill 50—200 M.: n. 2712 B.; near Mulletpond: n. 2771 B.; near Fort Willem: n. 2797 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2960 B., 2965 B.; between Belvedere and Oysterpond: n. 3075 B., 3078 B.; Milldrumhill 300—400 M.: n. 3136 B. Centryhill: n. 178, 170; Oysterpond: n. 177; Prince quarter: n. 171; John Ednyhill: n. 175; road to Guanabay: n. 176.

I also saw Capparis jamaicensis along roads from Filipsburg to Simsonsbay, in the Lowlands and near Saline.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida austral., Baham., Antill. (Symb.).

3104. **Morisonia** Linn.

Morisonia americana Linn. Spec. (1753) 503. Gris. Fl. 19; Duss 14; Millspaugh 490. Wild misple.

St. Eustatius: Slope of the lower part of Signalhill: n. 114 B.; from Little Mountain to Venusbay: n. 965 B.; Little Mountain: n. 195; Boven: n. 218; locality unknown: n. 217.

Saba: between Bottom and Marypoint 100—200 M.: n. 1556 B.; Cow pasture: n. 196.

St. Martin: Prince quarter (coll. George): n. 2483 B.; from Filipsburg to Belvedere: n. 2568 B.; Colebayhill: n. 219, 197.

St. Croix ex Millspaugh.

Antill., Nova Granata. (Gris. Fl.).

109. Moringaceae.

3128. **Moringa** Juss.

Moringa oleifera Lam. Enc. I (1783) 398.

Moringa pterygosperma Gärtn. Fruct. II (1791) 314 t. 147 f. 2; Gris. Fl. 16; Duss 12.

Moringa moringa Millsp. in Field. Col. Mus. Bot. I (1902) 490. Millspaugh 490. Moringo.

St. Eustatius: in a garden in Oranjestad: n. 66 B., 227 G.

Saba: Bottom: n. 1878 B.

St. Martin: from Filipsburg to Belvedere: n. 2576 B.

I also saw Moringa oleifera along roads from Filipsburg to Nakedboyhill.

St. Croix ex Millspaugh.

Baham., Antill., trop countries of both hemisph. (Symb.). Indig. in India orient. Also cultivated.

115. Crassulaceae.

3165. **Bryophyllum** Salisb.

Bryophyllum pinnatum S. Kurz. in Journ. As. Soc. Beng. XL. (1871) II 52; Millspaugh 490.

Bryophyllum calycinum Salisb. Parad. Lond. (1805) t. 3; Gris. Fl. 303; Duss 319. Leaf of live.

St. Eustatius: along the lower part of Signalhill: n. 120*a* B.: Cultuurvlakte: n. 335, 336, 287 H., 297 H.

Saba: Great Hill 400 M.: n. 1379 B.; top of the Cliff near the seaside of Boobyhill: n. 1607 B.; Peperpot: n. 337; locality unknown: n. 288 L.

I also saw Bryophyllum pinnatum: gut between Hellsgate and Mastiegut; Crispeënhill; Windwardside; Laddergut; Springbaygut.

St. Martin: I did not collect the plant on this island, but I saw it: along roads from Filipsburg to Nakedboyhill; Marigothill Marigot; from Belvedere to Oysterpond; Mount Paradis 400 M.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., trop. and subtrop. countries of both hemisph. (Symb.).

126. Rosaceae.

3396. **Prunus** Linn.

Prunus myrtifolia Urb. in Symbolae Antillanae V (1904) 93.

Prunus sphaerocarpa Sw. Prodr. (1788) 80; Gris. Fl. 231.

St. Eustatius: Slope of the Quill 400 M.: n. 272*a* B.

Antill., Brasilia. (Symb.).

3398. **Chrysobalanus** Linn.

Chrysobalanus icaco Linn. Spec. (1753) 513; Gris. Fl. 229; Duss 257; Millspaugh 490. Cocoa plum, Fat pork.

St. Eustatius: Top of the Quill 400 M.: n. 339 B.; slope of the Quill 300 M.: n. 880 B.; slope of the Quill 150 M.: n. 232, 247; slope of the Quill: n. 255, 256, 257, 258; Grandgut: n. 259: locality unknown: n. 254, 73 H., 155 H., 224 G., 246 G.

Saba: between Bottom and Marypoint 350 M.: n. 1491*a* B.; Mountain 600 M.: n. 1739 B.; Bottom: n. 2290 B.; Long peak: n. 249; locality unknown: n. 18 L., 335 L.

St. Martin: Colebay (coll. George): n. 2514 B.; seashore near Simsonsbay: n. 3036 B.; Lowlands: n. 3273 B.

St. Croix ex Millspaugh.

Florida austral., Baham., Antill., Amer. austr., Afr. austr. (Symb.).

3403. **Hirtella** Linn.

Hirtella triandra Sw. Prodr. (1788) 51; Gris. Fl. 230; Duss 258. Hairy plum.

Saba: Mountain near Hellsgate 600 M.: n. 2277 B.

Antill., Amer. austr. (Symb.).

128. Leguminosae.

3436. **Inga** Willd.

Inga laurina Willd. Spec. IV. 2 (1806) 1018; Gris. Fl. 227; Duss 255; Millspaugh 491. Red wood.

St. Eustatius: Top of the Quill 400 M.: n. 183 B., 205 B., 380 B., 481 B., 483 B., 498 B., 863*a* B., 367 B., 395 B.; slope of the Quill near Bengalen: n. 726 B.; Kant: n. 312, 313, 314; locality unknown: n. 51, 100.

Saba: lower part of the Bottom Mountain 250 M.: n. 1421 B.; Boobyhill 300 M.: n. 1578 B.; Windwardside: n. 1611 B., 2142 B.; Peperpot: n. 79, 80.

St. Martin: Mount Paradis: n. 3214 B., 3226 B., 3327*a* B.

St. Croix ex Millspaugh.

Hispaniola, Portorico, St. Thomas, St. Jan, St. Kitts, Antigua, Guadeloupe, Dominica, Martinique, St. Lucia, St. Vincent, Barbados, Grenada, Trinidad. (Symb.).

3440. **Enterolobium** Mart.

Enterolobium Timbouwa Mart. Flora XX (1827) 128.

Cultivated. [Antill., Amer. austr.] (E. & P.).

3441. **Pithecolobium** Mart.

Pithecolobium unguis-cati Benth. in Hook. Lond. Journ. Bot. III (1844) 200; Gris. Fl. 226; Duss 254; Millspaugh 491. Crab-wood.

St. Eustatius: Slope of the lower part of Signalhill: n. 106 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 768 B.; Signalhill 200 M.: n. 1035 B.; Cultuurvlakte: n. 1250; slope of the Quill: n. 1369; Boven: n. 1363; Gilboohill: n. 1379; road to English Quarter: n. 1372; locality unknown: n. 284 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1541 B.; gut between Hellsgate and Mastigut 300—400 M.: n. 2054 B.; Hellsgategut: n. 1361, 1370; pasture: n. 1368.

St. Martin: From Guanabay to Filipsburg: n. 2394 B.; from Filipsburg to Belvedere: n. 2569*a* B.; Nakedboyhill: n. 2681 B.; near Mulletpond: n. 2754 B.; hill on the northern side of Cul de Sac 0—100 M.: n. 2971 B.

I also saw Pithecolobium unguis-cati: Marigothill—Marigot; from Belvedere to Oysterpond; along roads near Grande Case; Lowlands; Mount Paradis 300—400 M.; Tintamarre; gut from Bethlehem to Cul de Sac.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida austr., Key Ins., Antill., Venezuela, Nova Granata. (Symb.).

3443. **Albizzia** Durazz.

Albizzia lebbek Benth. in Hook. Lond. Journ. Bot. III (1844) 87.

Cultivated. [Baham., Antill., Curaçao, Asia austr. and orient., Afric. trop.] (Symb.).

3446. **Acacia** Willd.

Acacia Farnesiana Willd. Spec. IV. 2 (1806) 1083; Gris. Fl. 222; Duss 250; Millspaugh 491. Casha.

St. Eustatius: Red Cliff: n. 390.

Saba: between Bottom and Marypoint 100—200 M.: n. 1460 B.; St. Giles: n. 1864 B.; Paris 2—400 M.: n. 372; Bottom: n. 414.

St. Martin: from Guanabay to Filipsburg: n. 2434 B.; Fort Willem 0—50 M.: n. 2545 B.; near Mulletpond: n. 2778 B.; Green Key: n. 3365 B.; Filipsburg: n. 251; Fort Amsterdam: n. 386.

St. Croix ex Millspaugh.

Baham., Antill., warmer countries of both hemisph. (Symb.).

Acacia macrantha Humb. et Bonpl. ex Willd. Spec. Plant. IV (1805) 1080; Gris. Fl. 221; Duss 249. French casha, Creole casha, Spanish casha.

St. Eustatius: Seashore near Oranjestad: n. 15 B., 38 B.; top

of the Quill 400 M.: n. 216*a* B., 318 B.; along roads in Oranjestad: n. 543 B., 567 B.; Bengalen: n. 630 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 781 B.; near White Wall: n. 858 B.; near Zeelandia: n. 253; slope of the hills near Concordia: n. 260; top of Pangohill: n. 259; Seafeathersbay: n. 263; locality unknown: n. 36 H., 39 H., 50 G., 304 G.

St. Martin: Prince quarter (coll. George): n. 2454 B.; from Filipsburg to Belvedere: n. 2552*a* B.; between Belvedere and Oysterpond: n. 3076 B.; lower part of Mount Paradis: n. 3291 B.; Colebayhill: n. 49.

Antill., Mexico, Venezuela, Equador, Peru, Buenos Ayres, Galapagos. (Gris. Fl.).

Acacia riparia H. B. K. Nov. Gen. VI (1823) 276; Duss 248.

Acacia sarmentosa Gris. Kar. (1857) 64; (non Desv.) (Symb.); Gris. Fl. 221.

St. Eustatius: near Bengalen: n. 600*a* B.

St. Martin: Prince quarter (coll. George): n. 2455 B.; Nakedboyhill 200—265 M.: n. 2732 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2862 B.; Colebey—Centryhill: n. 787.

St. Croix ex Millspaugh.

Antill., Amer. austr. trop. (Symb.).

Acacia tortuosa Willd. Spec. Plant. IV (1805) 1083; Gris. Fl. 222; Millspaugh 491. Dutch casha.

St. Eustatius: in deserted plantations at the seashore near Bengalen: n. 583 B., 590 B., 600 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 780 B.; along roads near English Quarter: n. 1004 B.; Signalhill 150 M.: n. 1024 B., 1026 B.; slope of the Quill on the side of White Wall 200 M.: n. 1175 B.; Cultuurvlakte: n. 383, 395; seashore: n. 384; Red Cliff: n. 378; locality unknown: n. 371.

St. Croix ex Millspaugh.

Antill., Mexico, Venezuela, Equador, Galapagos. (Gris. Fl.).

3447. **Leucaena** Benth.

Leucaena glauca Benth. in Hook. Journ. Bot. IV (1842) 416; Gris. Fl. 220; Duss 247; Millspaugh 491. Mimosa, Tantan.

St. Eustatius: Seashore near Oranjestad: n. 23 B.; slope of the lower part of the Quill near Bengalen: n. 719 B.; in a garden in Oranjestad: n. 1274 B.; Cultuurvlakte: n. 317, 318; locality unknown: n. 37 H., 44 G.

I also saw Leucaena glauca on the slope of the Cliff; Signalhill; deserted plantations near Bengalen.

Saba: Laddergut: n. 318; locality unknown: n. 129 L., 136 L.

St. Martin: from Filipsburg to Belvedere: n. 2590 B.

I also saw Leucaena glauca: hill between Mont des Accords and Centryhill; near Saline; hill on the northern side of Cul de Sac; along roads near Grande Case; lower part of Milldrumhill; Mount Paradis 300—400 M.; hills on the eastern side of Cul de Sac.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Curaçao, warmer countries of both hemisph.; in Amer. trop. indig? (Symb.).

3449. **Mimosa** Linn.

Mimosa pudica Linn. Spec. (1753) 518; Gris. Fl. 219; Duss 244; Millspaugh 492. Shame lady shame.

St. Eustatius: Slope of the Quill on the side of White Wall 200 M.: n. 1184 B.; along roads near Bengalen: n. 1192 B.; locality unknow: n. 216 H.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., Asia trop. (Symb.).

3450. **Desmanthus** Willd.

Desmanthus depressus Humb. et Bonpl. ex Willd. Spec. Plant. IV (1805) 1046; Gris. Fl. 218; Duss 244.

St. Eustatius: Top of the Quill 450 M.: n. 347 B.; lower part of the slope of the Quill near Bengalen: n. 721 B.; Fort de Wind: n. 797*a* B.; along roads near English Quarter: n. 999 B.; Cultuurvlakte: n. 282.

St. Martin: Nakedboyhill 50—200 M.: n. 2677 B.: Marigot road near Marigot: n. 2812 B.; lower part of the Milldrumhill: n. 3167 B.; Tintamarre: n. 3375 B., 3402 B.

Florida, Antill., Texas to Peru, Galapagos. (Gris. Fl.).

Desmanthus virgatus Willd. Spec. IV. 2 (1806) 1047; Gris. Fl. 218; Duss 244; Millspaugh 492. Wild tantan.

St. Eustatius: in a garden in Oranjestad: n. 71 B.; seashore near Tumbledowndickbay: n. 161 B.; Bengalen: n. 603 B.; slope of the Quill near Bengalen 200 M.: n. 741 B.; along roads in Oranjestad: n. 1075 B.; near Boven 200 M.: n. 1244 B.; Cultuurvlakte: n. 296; locality unknown: n. 162 G., 302 G.

Saba: Boobyhill 300 M.: n. 1614 B.; Laddergut 0—200 M.: n. 1967 B., 2012 B.; Paris 200—400 M.: n. 99.

St. Martin: from Filipsburg to Guanabay: n. 2371 B.; Cul de Sac—Marigothill 0—200 M.: n. 2633 B.; between Belvedere and Oysterpond: n. 3080 B.; slope of Centryhill: n. 98; French frontier n. 295.

St. Croix ex Millspaugh.

(Bermud.), Baham., Antill., (Amer. cont. trop. and subtrop. India-orient.). (Symb.).

3451. **Neptunia** Lour.

Neptunia plena Benth. in Hook. Journ. Bot. IV (1842) 355; Gris. Fl. 218; Duss 243. Waterthistle.

St. Martin: near Marigot: n. 2627*a* B.

Antill., Curaçao, Amer. austr., Asia trop. (introd.) (Symb.).

3459. **Adenanthera** Linn.

Adenanthera pavonina Linn. Spec. (1753) 384.

Cultivated. [Asia trop.] (Symb.).

3499. **Hymenaea** Linn.

Hymenaea courbaril Linn. Spec. (1753) 1192; Gris. Fl. 213; Duss 238; Millspaugh 492. Locust.

St. Eustatius: Slope of the Quill near Bengalen 50—200 M.: n. 649 B.; slope of the Quill 250 M.: n. 889 B.; slope of the Quill: n. 461, 2947; locality unknown: n. 75 H., 175 H., 216 G.

Saba: Windwardside: n. 2332 B.; locality unknown: n. 348 L.

St. Martin: from Filipsburg to Belvedere: 2592 B.; Cul de Sac: n. 2995 B.; Centryhill: n. 472; French frontier: n. 462.

I also saw Hymenaea courbaril on the hills on the northern side of Cul de Sac.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop. (Symb.). Also cultivated.

3508. **Tamarindus** Linn.

Tamarindus indica Linn. Spec. (1753) 34; Gris. Fl. 213; Duss 237; Millspaugh 492. Tamarind.

St. Eustatius: Seashore near Oranjestad: n. 29 B.; slope of the lower part of Signalhill: n. 112 B.; in a garden in Oranjestad: n. 1065 B., 40 H., 47 G.

Saba: between Bottom and Marypoint 100—200 M.: n. 1547 B.; Bottom: n. 1873 B., 1874 B.; locality unknown: n. 117 L.

St. Martin: from Filipsburg to Guanabay: n. 2350 B.; Princequarter (coll. George): n. 2468 B.

I also saw Tamarindus indica: Marigothill—Marigot; Fort Willem; near Saline; along roads from Filipsburg to Simsonsbay; Vallée des Peres; one of the islands in Simsonsbaylagoon.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Trop. countries of both hemisph.; Ind. veris. in Africa. trop. (Symb.). Also cultivated.

3528. **Bauhinia** Linn.

Bauhinia Kappleri Sagot in Ann. Sc. nat. VI Sér. vol. XIII (1882) 317.

Cultivated. [Asia austro—orient.]. (Symb.).

3536. **Cassia** Linn.

Cassia alata Linn. Spec. (1753) 378.

Cultivated. [Cosmop. trop.]. (Ind. Kew.).

Cassia bicapsularis Linn. Spec. (1753) 376; Gris. Fl. 207; Duss 231; Millspaugh 492. Blydog.

St. Eustatius: Seashore near Oranjestad: n. 26 B., 50 B.: slope of the lower part of Signalhill: n. 113*a* B.; in deserted plantations at the seashore near Bengalen: n. 591 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 793 B.; gut near Fort de France: n. 846 B.; along roads near Glassbottle: n. 1214 B.; locality unknown: n. 25 G.; Cultuurvlakte: n. 329; near Seinpost: n. 325.

Saba: Windwardside: n. 1891 B.; Peperpot: n. 330; Greathill: n. 315; locality unknown: n. 28 L.

I also saw Cassia bicapsularis: in Laddergut.

St. Martin: from Filipsburg to Guanabay: n. 2370 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2955 B.; Cul de Sac: n. 320.; Guanabay: n. 313.

I also saw Cassia bicapsularis: along roads from Filipsburg to Nakedboyhill: Marigothill to Marigot; Nakedboyhill: in pastureground near Bellevue; lower part of Milldrumhill; Mount Paradis 300—400 M.; one of the islands of Simsonsbaylagoon; Lowlands.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Curaçao., Amer. cont. trop., Inquil. in India Orient. and Madeira. (Symb.).

Cassia fistula Linn. Spec. (1753) 377. Liquorice plant.
Cultivated. [Asia trop.]. (Symb.).

Cassia glandulosa Linn. Syst. X ed. II (1759) 1017; Gris. Fl. 211; Duss 233.

Chamaecrista glandulosa Greene in Pitton. IV (1899) 28; Millspaugh 493. Wild peas.

St. Eustatius: Top of the Quill 390 M.: n. 499 B.; slope of the Quill near Bengalen 100 M.: n. 666 B.: between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 787 B.; near White Wall: n. 1262 B.; Cultuurvlakte: n. 740; Little Mountain: n. 1768; slope of the Quill: n. 992, 1763; locality unknown: n. 81 H., 99 G., 170 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1350 B.; between Windwardside and Hellsgate: n. 1680 B.; Windwardside: n. 2324 B.: Peperpot: n. 1770, 732; Crespeen—Rendez-vous: n. 991.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2651 B.; Centryhill: n. 260; Marigotroad: n. 993.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Amer. austr. (Symb.).

Cassia obovata Collad.; Gris. Fl. 209.

St. Martin: along the saltpond near Filipsburg: n. 2441 B.; Guanabay: n. 274.

Anguilla Boldingh.

From Africa trop. (Gris. Fl.).

Cassia occidentalis Linn., Spec. (1753) 377; Gris. Fl. 209; Duss 235; Millspaugh 492. Bitterroot.

St. Eustatius: Seashore near White Wall: n. 859 B.; along roads near Glassbottle: n. 864 B.; along roads in Oranjestad: n. 562*a* B., 1103 B.; locality unknown: n. 4 G., 4 H.

Saba: lower part of the Bottom mountain 250 M.: n. 1394 B.: Bottom: n. 2243 B.; Gainbygut: n. 1035; locality unknown: n. 162 L., 237 L.

St. Martin: along roads near Fort Willem: n. 2525 B.; Marigotroad near Marigot: n. 2819 B.; in pastureground near Bellevue: n. 2843 B.; Prince quarter: n. 1034; locality unknown: n. 2524 B.

I also saw Cassia occidentalis: Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida austr., Baham., Antill., Amer., Africa, Asia trop. (Symb.).

Cassia polyadena DC. Pl. Rar. Jard. Genèv. 2 Rapp. (1825) 12; Gris. Fl. 210.

St. Martin: Lowlands: n. 3272 B., 3274 B., 3288 B.

Baham., Cuba. Domingo, Jamaica, St. Barthélemy, Guadeloupe. (Herb. Krug et Urban).

3543. **Krameria** Loefl.

Krameria ixina Linn. (1762) 117; Gris. Fl. 31; Wild senna.

St. Eustatius: Signalhill 200 M.: n. 126 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 763 B.; near Maryglory 150 M.: n. 1163 B.; near White Wall on the top of the Cliff: n. 1256 B.; Cultuurvlakte near Golden Rock: n. 181; slope of the hills near Fort Amsterdam: n. 164; Signalhill—Red Cliff: n. 163; locality unknown: n. 200 H.

Hispaniola, St. Thomas, Antigua, Curaçao, Columbia. (Symb.).

3551. **Parkinsonia** Linn.

Parkinsonia aculeata Linn. Spec. (1753) 375; Gris. Fl. 204; Duss 227; Millspaugh 493. Wonder tree, Jeruzalem thorn.

St. Eustatius: along roads in Oranjestad: n. 915 B., 63, 73, 150 H., 73 G.

St. Martin: near Filipsburg: n. 2340 B.

I also saw Parkinsonia aculeata on Mount Paradis 100—200 M.

St. Croix ex Millspaugh.

Key ins., Antill., Amer. cont. trop.; escaped in Afr. and Asia trop. (Symb.). Also cultivated.

3552. **Haematoxylon** Linn.

Haematoxylon campechianum Linn. Spec. (1753) 384; Gris. Fl. 204; Duss 226; Millspaugh 493. Log wood.

St. Eustatius: along a road near Oranjestad: n. 1254 B; locality unknown: n. 291 H.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cent. et Austr. sept. (Symb.).

3556. **Poinciana** Linn.

Poinciana regia Boj. ex Hook. Bot. Mag. (1829) tab. 2284. July tree, Flamboyant.

Cultivated. [Madagascar.]. (Symb.).

3559. **Caesalpinia** Linn.

Caesalpinia ciliata Urb. in Symbolae Antillanae VI (1900) 275.

Guillandina Bonduc Gris. Kar. (1857) n. 466 p. 60 et quoad specim. Guad. Flor. p. 240; non Linn. (Symb.).

Guillandina Grisebachiana Kr. et Urb. in Duss Flore. Ant. franc. (1897) 229.

St. Eustatius: Seashore near Oranjestad: n. 21 B.; seashore near Tumbledowndickbay: n. 156 B.; along roads in Oranjestad: n. 1090 B., 69 H.

Saba: O. Kuntze (Symb.).

St. Martin: Colebay (coll. George): n. 2501 B.; near Mulletpond: n. 2766 B.

Barthélemy, Antigua, Guadeloupe, Desirade, Marie Galante, Martinique. (Symb.).

Caesalpinia coriaria Willd. Spec. Plant. II (1799) 532; Millspaugh 493.

Lebidibia coriaria Schlecht. in Linnaea V (1830) 193; Gris. Fl. 231; Duss 231. Divi divi.

St. Eustatius: in a garden in Oranjestad: n. 64 B., 245 G.

Saba: locality unknown: n. 301 L.; Windwardside: n. 2331 B.

St. Martin: along roads from Colebayhill to Simsonsbay: n. 3016 B., 3017 B.

St. Croix ex Millspaugh.

Baham., Antill., Curaçao, Mexico, Venezuela, Nova Granata. (Symb.).

Caesalpinia Crista Linn. Spec. I ed. I (1753) 380; Millspaugh 493.

Guillandina glabra. Griseb. Flor. W. I. (1860) 205 (quoad. specim. Martin. a. Cl. Sagot. non Duchassaing missum.); Duss 228; (Symb.).

St. Eustatius: Top of the Quill 400 M.: n. 306 B.; slope of the Quill 50 M.: n. 635; locality unknown: n. 160 G.

Saba: lower part of the Bottom Mountain 250 M.: n. 1409 B.; Bottom: n. 634; locality unknown: n. 354 L.

St. Martin: near Mulletpond: n. 2788 B.

St. Croix ex Millspaugh.

Bermuda., Key ins., Baham., Antill., Amer. cont. trop., Asia austro-orient., Nova Guinea, Australia. (Symb.).

Caesalpinia pulcherrima Sw. Obs. (1791) 166; Gris. Fl. 205; Duss 230; Millspaugh 493. Pride of Barbados.

St. Eustatius: in a garden in Oranjestad: n. 1088 B., 67 H., 68 H., 74 G., 75 G.

Saba: St. Giles: n. 1871 B.; locality unknown: 223 L.

St. Martin: from Filipsburg to Belvedere: n. 2598 B.

I also saw Caesalpinia pulcherrima on Marigothill near Bellevue.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Key ins., Baham., Antill., Amer. cont. trop., Afr. trop., Asia trop. Patria ignot. (Symb.). Also cultivated.

3669. **Crotalaria** Linn.

Crotalaria incana Linn. Spec. (1753) 716; Gris. Fl. 180; Duss 193; Millspaugh 494. Small yellow popbush.

St. Eustatius: along roads: n. 256 H., 596*a* B.

Saba: Windwardside: n. 2144 B.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2872 B.; roads from Marigot to Filipsburg: n. 3110 B.; French frontier: n. 2294.

St. Croix ex Millspaugh.

Florida austral., Antill., warmer countries of both hemisph. (Symb.).

Crotalaria retusa Linn. Spec. (1753) 715; Gris. Fl. 179; Duss 193; Millspaugh 494. Big yellow popbush.

St. Eustatius: Top of the Quill 400 M.: n. 231 B.; White Wall: n. 810 B.; along roads near Bengalen: n. 1187 B.; Fairplay: n. 625; Cultuurvlakte: n. 635; slope of the Quill: n. 645; along roads: n. 285 G., 286 H.

Saba: lower part of the Bottom Mountain 250 M.: n. 1387 B.; Mountain 600 M.: n. 1753 B.; Laddergut 0—200 M.: n. 1961 B.; locality unknown: n. 66 L.

St. Martin: from Guanabay to Filipsburg: n. 2436 B.; Point Blanche (coll. George): n. 2491 B.; from Filipsburg to Belvedere: n. 2600 B.; in an orchard near Bellevue: n. 2848 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop., Afr. trop., Asia austro-orient., Austral. (Symb.).

Crotalaria verrucosa Linn. Spec. (1753) 715; Gris. Fl. 178; Duss 192; Millspaugh 494. Purple popbush.

St. Eustatius: along roads in Oranjestad: n. 923 B.; Fairplay: n. 1634; slope of the Quill: n. 1614, 1624; locality unknown: n. 285 H.

St. Martin: along roads from Grande Case to Marigot: n. 3108 B.

Antill.; from the East Indies. (Gris. Fl.).

3688. **Medicago** Linn.

Medicago sativa Linn. Spec. (1753) 778.
Cultivated. [Europa]. (Ind. Kew.).

3702. **Indigofera** Linn.

Indigofera suffruticosa Mill. Gard. Dict. VIII ed. (1768) n. 2.
Indigofera anil Linn. Mant. II (1771) 272; Gris. Fl. 181; Duss 194; Millspaugh 494. Wild indigo.

St. Eustatius: in a garden in Oranjestad: n. 73 B.; Bengalen: n. 609 B.; along roads near English Quarter: n. 1001 B.; Fairplay: n. 290; Cultuurvlakte: n. 221; slope of the Quill: n. 231, 241; locality unknown: n. 172 G., 157 H., 219 G.

Saba: between Bottom and Marypoint 100—200.: n. 1524 B.; along roads 200—300 M.: n. 1709 B.; St. Giles: n. 1867 B.; Hellsgate—Marypoint: n. 2047 B.; gut near Devilshand: n. 2077*a* B.; Ladder: n. 251; locality unknown: n. 87 L., 251 L.

I also saw Indigofera suffruticosa on Crespeenhill.

St. Martin: along roads near Filipsburg: n. 2528 B.

I also saw Indigofera suffruticosa near Grande Case.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. calidior; inq. in the trop. Old world. (Symb.).

3718. **Tephrosia** Pers.

Tephrosia cathartica Urb. Symb. Antill. IV (1905) 283. Senna.

St. Eustatius: Seashore near English Quarter: n. 1010 B.; English Quarter: n. 1497, 1508; road to English Quarter: n. 1498; locality unknown: n. 158 G., 240 H.

Saba: Bottom: n. 2236 B.; locality unknown: n. 91 L.

Baham., Antill., Bay of Honduras, Cartagena. (Symb).

Tephrosia cinerea Pers. Syn. II (1807) 328; Gris. Fl. 182; Duss 195. Senna.

St. Eustatius: Fort de Wind: n. 801 B.; White Wall: n. 812 B., 814 B., 821 B.; near Boven: 200 M.: n. 1243 B.; slope of the Quill: n. 1580.

St. Martin: Point Blanche (coll. George): n. 2478 B.

St. Croix (Symb.).

Baham., Antill., Curaçao, Amer. cont. trop. (Symb.).

3745. **Cracca** Benth.

Cracca caribaea Benth. ex Oerst. in Kjob. Vidensk. Medd. (1853) 9; Gris. Fl. 183; Duss 195.

Benthamantha caribaea O. Ktze. Rev. III 2 (1898) 53; Millspaugh 494.

St. Eustatius: along roads in Oranjestad: n. 920 B.; near Maryglory 150 M.; n, 1151 B.

St. Martin: Marigot road near Marigot: n. 2813 B.; lower part of Mount Paradis: n. 3290 B.; hills on the eastern side of Cul de Sac: n. 3444 B.; road near Fort Amsterdam: n. 1133 B.; Colebayhill: n. 1143; Prince quarter: n. 1098; road to Guanabay: n. 1123.

St. Croix ex Millspaugh.

Antill., Amer. centr., Venezuela, Equador. (Symb.).

3747. **Sesbania** Scop.

Sesbania grandiflora Pers. Syn. II (1807) 316. Tiger tongue. Cultivated. [India orient., Austral. sept.]. (Symb.).

Sesbania sericea P. D.C. Prodr. II (1825) 266; Gris Fl. 184; Duss 196.

St. Martin: Colebay (coll. George): n. 2520 B.; near Simsonsbaylagoon: n. 3037 B.

I also saw Sesbania sericea near Marigot along a Saltpond.

Baham., Antill. (Symb.).

3802. **Stylosanthes** Sw.

Stylosanthes hamata Taubert Mon. Stylos. (Nov. 1889) 22; Millspaugh 495.

Stylosanthes procumbens Sw. Prodr. (1788) 108; Gris. Fl. 188; Duss 202. Wild clover.

St. Eustatius: Signalhill 200 M.: n. 130 B.; in a garden in Oranjestad: n. 755 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 758 B.; hills near Concordia 100 M.: n. 954 B.; lower part of Gilboohill: n. 1306; near Sugarloaf: n. 1310; English Quarter: n. 1386; locality unknown: n. 174 H., 179 H., 252 G., 300 G.

Saba: along Forthgut 150—200 M.: n. 1628 B.; along roads 200—300 M.: n. 1716 B.; seashore near Flatpoint: n. 2138 B.; Marypoint: n. 1328.

St. Martin: from Filipsburg to Guanabay: n. 2358 B.; Point Blanche (coll. George): n. 2490 B.; Cul de Sac—Marigot 0—200 M.:

n. 2623 B.; in an orchard near Bellevue: n. 2449*a* B.; between Mount Vernon and Orientbay: n. 2939 B.; Colebayhill: n. 1308; road to Guanabay: n. 1316.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Amer. sept., Mexico, Amer. centr., Nova Grenata. (Symb.).

3803. **Arachis** Linn.

Arachis hypogaea Linn. Spec. (1753) 741; Gris. Fl. 189; Duss 203; Millspaugh 495. Pea nut.

Saba: Mountain 600 M.; n. 1778 B.

St. Croix ex Millspaugh.

Cult. in tropical countries. Patria ignota. (Symb.).

3804. **Zornia** Gmel.

Zornia diphylla Pers. Syn. II (1807) 318; Gris. Fl. 185; Duss 198.

St. Eustatius: along roads near Bengalen: n. 1186 B.

St. Croix (Symb.).

Antill., warmer countries of both hemisph. (Symb.).

3807. **Desmodium** Desv.

Desmodium axillare P. DC. Prodr. II (1825) 334; Gris. Fl. 186; Duss 200.

Meibomia axillaris O. Ktze. Rev. I (1891) 195; Millspaugh 495.

Saba: between Bottom and Marypoint 100—200 M.: n. 1501 B.; Mountain 800 M.: n. 1807 B.; Mountain near Windwardside 600 M.: n. 2184 B.; Mountain 600—800 M.: n. 2011; Gainbygut: n. 2018; locality unknown: n. 201 L.

St. Croix ex Millspaugh.

Antill., Costarica, Venezuela, Nova Granata, Chili, Guiana, Brasil. (Symb.).

Desmodium scorpiurus Desv. Journ. Bot. I (1813) 122; Gris. Fl. 187; Duss 201.

Meibomia scorpiurus O. Ktze. Rev. I (1891) 198; Millspaugh 495.

St. Eustatius: Fairplay: n. 1346; seashore: n. 1345; Cultuurvlakte: n. 1344.

St. Croix ex Millspaugh.

Antill., from Mexico to Peru. (Symb.).

Desmodium spirale P. DC. Prodr. II (1825) 332; Gris. Fl. 188; Duss 201;

Meibomia spiralis O. Ktze. Rev. I (1891) 197; Millspaugh 495.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1327 B.; Laddergut 0—200 M.: n. 1969 B.; locality unknown: n. 262 L.

St. Martin: hills on the eastern side of Cul de Sac: n. 3446 B., 3445*a* B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., Afr. trop., Ind. or. and Ins. pacif. (Symb.).

Desmodium supinum P. DC. Prodr. II (1825) 332.

Desmodium incanum DC. Prodr. II (1825) 332; Gris. Fl. 186; Duss 200. Wild peas.

Meibomia incana Ktze. Rev. I (1891) 197; Millspaugh 495.

St. Eustatius: Top of the Quill 380 M.: n. 273 B., 278 B.; slope of the Quill near Bengalen 50—200 M.: n. 642 B., n. 675 B.; slope of the lower part of the Quill near Bengalen: n. 725 B.; along roads in Oranjestad: n. 1093 B.; near Maryglory 150 M.: n. 1142 B.; slope of the Quill: n. 1786, 1807, 1817; Cultuurvlakte: n. 1778; locality unknown: n. 329 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1281 B.; between Bottom and Marypoint: 100—200 M.: n. 1517 B.; top of the Cliff near the seaside of Boobyhill: n. 1605 B.; Mountain near Windwardside 600 M.: n. 2166 B.; Ladder: n. 1776, 1796; Rendez-vous 400 M.: n. 1806, 1848; Gainbygut: n. 1816; locality unknown: 25 L.

St. Martin: Nakedboyhill 50—200 M.: n. 2702 B.; along roads in Cul de Sac: n. 2998 B.; top of the hill on the northern side of Cul de Sac 200—300 M.: n. 3012 B.: Mount Paradis 150—400 M.: n. 3199 B., 3343 B.; Colebayhill: n. 1777; French frontier: n. 1787; road to Guanabay: n. 1797.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop., Afr. trop. (Symb.).

Desmodium tortuosum P. DC. Prodr. II (1825) 332; Gris. Fl. 188.

Saba: Ladder: n. 171, 181; Gainbygut 191.

Antill., Amer. cent. and austr. sept. (Symb.).

Desmodium triflorum P. DC. Prodr. II (1825) 334; Gris. Fl. 186; Duss 198. Sisternweed.

Meibomia triflora O. Ktze. Rev. I (1891) 197; Millspaugh 495.

St. Eustatius: locality unknown: n. 249 H.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2875 B.; Mount Paradis 150—400 M.: n. 3198 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., Afric. trop., Asia austr.-orient. (Symb.).

Desmodium uncinatum P. DC. Prodr. II (1825) 325. Gris. Fl. 187.

Saba: from Marypoint to Bottom 100—200 M.: n. 1504*a* B.

Cuba, Jamaica, Hispaniola. (Herb. Krug et Urban). Sonora to Bolivia, Venezuela to Uraguay. (Gris. Fl.).

3810. **Alysicarpus** Neck.

Alysicarpus nummularifolius P. DC. Prodr. II (1825) 353.

Alysicarpus vaginalis P. DC. Prodr. II (1825) 353; Gris. Fl. 185; Duss 199; Millspaugh 494. Sistern peanut.

St. Eustatius: locality unknown: n. 250 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1549 B., 1550 B.; seaside of Tentguthill 100 M.: n. 1653 B.

St. Martin: from Filipsburg to Guanabay: n. 2359 B.; lower part of Milldrumhill: n. 3115.

St. Croix ex Millspaugh.

Antill.; Patria Ind. or. (Symb.).

3834. **Lonchocarpus** H. B. K.

Lonchocarpus violaceus H. B. K. Nov. Gen. et Sp. VI (1823) 383; Gris. Fl. 200; Duss 219.

St. Eustatius: Top of the Quill 400 M.: n. 176 B., 345 B.; Quill: n. 45; slope of the Quill: n. 888 B.

Amer. austr. (Ind. Kew.), Antill. (Herb. Krug et Urban).

3839. **Piscidia** Linn.

Piscidia piscipula Sarg. in Gard. and For. IV. (1891) 436.

Piscidia erythrina Linn. Syst. X ed. II (1759) 1115; Gris. Fl. 200; Duss 220.

Ichthiomethia piscipula Hitchc. in Gard. and For. IV. (1891) 472; Millspaugh 495. Dogwood, Stinkwood.

St. Eustatius: from Tumbledowndickbay to Signalhill: n. 164 B.; White Wall: n. 823 B.; slope of the hills near Concordiabay: n. 705; Seinpost: n. 715; Boven: n. 706, 725; locality unknown: n. 210*a* G., 314 H., 724.

St. Martin: Prince quarter (coll. George): n. 2477 B.; Fort Willem: n. 2544 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3424 B.

I also saw Piscidia piscipula: Marigot to Marigothill; Nakedboyhill; hill on the northern side of Cul de Sac; near Saline: one of the i lands in Simsonsbaylagoon

St. Croix ex Millspaugh.

Florid. austr., Key ins., Baham., Antill., Mexico austr. and Amer. austro-sept. (Symb.).

3841. **Andira** Lam.

Andira jamaicensis Urb. in Symbolae Antillanae IV (1905) 298.

Andira inermis H. B. K. Nov. Gen. VI (1823) 385 in obs.; Gris Fl. 202; Duss 224.

St. Eustatius: Quill: n. 442 B., 906 B.; near Sighalhill: n. 1252*a* B.; locality unknown: n. 42.

Antill., Amer. cont. trop., Afr. occ. (Symb.).

3856. **Abrus** Linn.

Abrus precatorius Linn. Syst. XII ed. II (1767) 472; Gris. Fl. 190; Duss 204; Millspaugh 496. Jumbybeans, Liquorice plant.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 55 B.; along roads in Oranjestad: n. 572 B.; slope of the Quill near Bengalen 250 M.: n. 702 B.; along roads: n. 26; slope of the Quill: n. 24; locality unkuown: n. 23, 26 H., 235 G.

I also saw Abrus precatorius: in deserted plantations near Bengalen; Signalhill 100 M.

Saba: Bottom 200 M.: n. 1450.; Laddergut 200 M.: n. 2006 B.; locality unknown: n. 312 L.

St. Martin: Prince quarter (coll. George): n. 2459 B.; Marigot-hill—Marigot 0—200 M.: n. 2640 B.; along roads from Bethlehem to Mont Chambord: n. 2910 B.; Colebayhill: n. 25; locality unknown: n. 3619 B.

I also saw Abrus precatorius on Nakedboyhill; top of Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. calid., Africa, Asia calidior. (Symb.).

3857. **Clitoria** Linn.

Clitoria ternatea Linn. Spec. (1753) 753.

Cultivated. [Afric. orient.]. (Symb.).

3858. **Centrosema** Benth.

Centrosema virginianum Benth. in Ann. Wien. Mus. II (1838) 120; Gris. Fl. 193; Duss 209.

Bradburya virginianum O. Ktze. Rev. I (1891) 164; Millspaugh 300.

St. Eustatius: Top of the Quill 380 M.: n. 265 B.; slope of the Quill near Bengalen 50--200 M.: n. 639 B., 661 B., 683 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 777 B.; gut near Fort de Wind 50 M.: n. 844 B.; slope of the Quill 200 M.: n. 878 B.; lower part of the hills near Concordia: n. 979 B.; along roads in Oranjestad: n. 1131 B.; along roads near Bengalen: n. 1193 B.; Cultuurvlakte: n. 151, 161; slope of the Quill: n. 211; locality unknown: n. 104 H., 236 G.

Saba: lower part of the Bottom Mountain 250 M.: n. 1414 B.; Bottom 200 M.: n. 1452 B., 152; locality unknown: n. 69 L.

I also saw Centrosema virginianum in Laddergut.

St. Martin: from Filipsburg to Guanabay; n. 2387 B.; Point Blanche (coll. George): n. 2494 B.; from Filipsburg to Belvedere: n. 2574 B.; Nakedboyhill: 2682 B.; lower part of Milldrumhill: n. 3172 B.; gut from Bethlehem to Cul de Sac 0—100 M.: n. 3412 B.; Cul de Sac: n. 213; Centryhill: n. 162.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., Amer. cont. from the South U. S. to Argentin., Afr. trop. occ. (Symb.).

3866. **Teramnus** Sw.

Teramnus labialis Spreng. Syst. III (1826) 235; Gris. Fl. 193; Duss 209; Millspaugh 496.

St. Martin: in pastureground near Bellevue: n. 2824 B.; from Filipsburg to Belvedere: n. 2563 B.; locality unknown: n. 3500*a* B.

St. Croix ex Millspaugh.

Antill., Africa trop. to the Cape, East Indies. (Gris. Fl.).

3870. **Erythrina** Linn.

Erythrina corallodendron Linn. Spec. (1753) 706; Gris. Fl. 199; Duss 217; Millspaugh 496.

Saba: lower part of the Bottom Mountain 250 M.: n. 1411 B.; St. John's 250 M.: n. 1729 B.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2653 B.

St. Croix ex Millspaugh.

Bermud., Antill., Mexico, Amer. contr. and austro-sept. (Symb.).

3877. **Mucuna** Adans.

Mucuna pruriens P. DC. Prodr. II (1825) 405.
Cultivated. [trop. countries of both hemisph.] (E. a. P.).

3882. **Galactia** Adans.

Galactia dubia P. DC. Prodr. II (1825) p. 238.
Galactia filiformis Griseb. Flor. W. I. (1860) 194 (p. p.). (Symb.); Duss 210 (p. p.).
St. Eustatius: Top of the hills near Concordia 100 M.: n. 943 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 789 B.; Fort de Wind: n. 795*a* B.; White Wall: n. 818*a* B.; gut near Fort de Wind 50 M.: n. 827 B., 850 B.;
St. Martin: near Mullet pond: n. 2779 B.; along roads in Cul de Sac: n. 2999 B.
Anguilla Boldingh.
Portorico, St. Thomas, Guadeloupe, Antigua, Desirade, Marie-Galante. (Symb.).

Galactia longifolia Benth. in Ann. Wien. Mus. II (1838) 127.
Galactia angustifolia Gris. Flor. W. I. (1860) 194; Duss 210; — non Kth. (Symb.).
Galactia tenuiflora Wight et Arn. var. Benth. in Mart. Flor. Bras. XV. I (1859) 143. (Symb.); Millspaugh 495.
St. Eustatius: Fairplay: n. 300; slope of the Quill: n. 301, 2755; Cultuurvlakte: n. 302; locality unknown: n. 303.
St. Croix ex Millspaugh.
Antigua, Guadeloupe, Marie-Galante. (Symb.).

Galactia nummularia Urb. in Symb. Antillanae VI. (1909) 12.
St. Martin near Guanabay: n. 2428 B.

Galactia rubra Urb. in Symb. Antillanae. II. (1900) 309.
Galactia longiflora Gris. Flor. W. I. (1860) p. 194 (p.p.); Duss 210, — non Arn. (Symb.).
St. Eustatius: Slope of the Quill on the side of White Wall 200 M.: n. 1174 B.; Tree gut: n. 204 H., 282 G.
Saba: between Bottom and Marypoint 350 M.: n. 1496 B.; slope of the Mountains near St. John's: n. 1737 B.; along roads 200—300 M.: n. 1715 B.; Hellsgate—Marypoint: n. 2042 B.; Ladder-gut: n. 2760.
St. Martin: Top of the hill on the northern side of Cul de Sac 200—300 M.: n. 2994 B.; French frontier: n. 76, 78.
St. Kitts, Antigua, Guadeloupe, Dominica, Martinique. (Symb.).

3891. **Canavalia** P. DC.

Canavalia obtusifolia P. DC. Prodr. II (1825) 404; Gris. Flor. 197; Duss 215; Millspaugh 496. Sea peas.

St. Eustatius: Seashore near Oranjestad: n. 22 B., 33 B.; near Boven 200 M.: n. 1231 B.; Cultuurvlakte near Golden Rock: n. 381; locality unknown: n. 119 H.

I also saw Canavalia obtusifolia on the top of the Cliff near Gallowsbay.

Saba: I saw Canavalia obtusifolia near Flat Point.

St. Martin: Point Blanche (coll. George) n. 2489 B.; seashore near Mulletpond: 2767 B.

St. Croix ex Millspaugh.

Florida, Bermud., Baham., Antill., warmer countries of both hemisph. (Symb.).

Canavalia spec.

St. Eustatius: n. 244 G.

3892. **Cajanus** P. DC.

Cajanus indicus Spreng. Syst. III (1826) 248; Gris. Fl. 191; Duss 205.

Cajanus cajan Millsp. in Field. Col. Mus. Bot. II (1900) 53; Millspauch 497.

St. Eustatius: locality unknown: n. 55 G., 210 H.

Saba: Hellsgate: n. 1696 B.; locality unknown: n. 16 L.

I also saw Cajanus indicus: Laddergut.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Warmer countries of both. hemisph. (Symb.). Also cultivated.

3897. **Rhynchosia** Lour.

Rhynchosia minima P. DC. Prodr. II (1825) 385; Gris. Fl. 190; Duss 205.

Dolicholus minimus Medic. Vorles. Churpf. Phys. Ges. II (1787) 354; Millspaugh 496.

St. Eustatius: Top of the Quill 450 M.: n. 354 B.; slope of the Quill: n. 1429, 1449; Cultuurvlakte: n. 1439.

Saba: between Bottom and Marypoint 100—200 M.: n. 1504 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Warmer countries of both hemisph. (Symb.).

Rhynchosia reticulata P. DC. Prodr. II (1825) 385; Gris. Fl. (1859) 190.

Dolicholus reticulatus Millsp. in Field Col. Mus. Bot. II (1900) 53; Millspaugh 496. Pea withe.

St. Eustatius: Top of the Quill 400 M.: n. 215 B., 276 B.; slope of the Quill near Bengalen 50 M.: n. 660 B.; hills near Concordia 100 M.: n. 944 B.; along roads near English Quarter: n. 1005 B.; Red Cliff—Tumbledowndickbay: n. 1549; slope of the Quill: n. 1529, 1552, 1539.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1346 B.; Crispeen 400 M.: n. 1718 B.; Laddergut 200 M.: 1972 B.; gut between Hellsgate and Mastiegut 300—400 M.: n. 2027 B.; Windwardside: n. 2311 B.; Ladder: n. 1522, 1561; Paris 2—400 M.: n. 1542; Mountain 400—800 M.: n. 1542.

St. Martin: Prince quarter (coll. George): n. 2470 B.; Cul de Sac—Marigothill 0—200 M.: n. 2634 B.; Nakedboyhill 50—200 M.: n. 2693 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2870 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2947 B.; lower part of the Milldrumhill: n. 3173 B.; hills on the eastern side of Cul de sac: n. 3439 B.; French frontier: n. 1512.

St. Croix ex Millspaugh.

Antill., Amer. austr. (Symb.).

3901. **Phaseolus** Linn.

Phaseolus lathyroides Linn. Spec. (1763) 1018.

Phaseolus semierectus Linn. Mant. I (1767) 100; Gris. Fl. 197; Duss 214; Millspaugh 497.

St. Eustatius: in a garden in Oranjestad: n. 1101 B.; Fairplay: n. 590; Cultuurvlakte: n. 472, 580.

St. Croix ex Millspaugh.

Baham., Antill., Curaçao, Amer. centr. et austr., India orient., Malaya. (Symb.).

Phaseolus lunatus Linn. Spec. (1753) 724. White beans.

Cultivated. [All. trop. countries.] (Symb.).

Phaseolus vulgaris Linn. Spec. (1753) 723. Snijboontjes.

Cultivated. [Everywhere.] (Ind. Kew.).

3905. **Vigna** Savi.

Vigna repens O. Ktze. Rev. I (1891) 212; Millspaugh 497.

Vigna luteola Benth. in Mart. Flor. Bras XV. I (1859) 194 t. 50 f. II; Gris. Fl. 195; Duss 211.

Vigna glabra Savi. Mem. Phas. III (1882) 8.

St. Eustatius: Slope of the lower part of the Quill near Bengalen: n. 716 B.; locality unknown: n. 1 G., 66 H.; slope of the Quill: n. 1548, 1549, 2005, 2015.

St. Croix ex Millspaugh.

Bermud., Antill., Amer. calid. from U. S. to Argentin., Afr. trop., Asia trop., Australia. (Symb.).

3909. **Lablab** Adans.

Lablab vulgaris Savi Diss. (1821) 19 t. 19 f. 8.

Dolichos lablab Linn. Spec. (1753) 725; Gris. Fl. 196; Duss 212; Millspaugh 497.

St. Eustatius: Cultuurvlakte: n. 1891; slope of the Quill: n. 1937.

Saba: Windwardside: n. 1887 B.; Bottom: n. 2240 B.; Crispeen-Rendez-vous: n. 1927; locality unknown: n. 167 L., 304 L.

St. Croix ex Millspaugh.

Trop. countries of both. hemisph.; Ind. veris. in Afr. trop. (Symb.). Also cultivated.

130. Oxalidaceae.

3936. **Oxalis** Linn.

Oxalis corniculata Linn. Spec. (1753) 435; Gris. Fl. 133; Duss 134; Millspaugh 497.

St. Eustatius: Slope of the Quill near Glassbottle: n. 1206 B.; slope of the Quill: n. 131, 132.

Saba: lower part of the Bottom Mountain 250 M.: n. 1400 B.; between Bottom and Marypoint 100—200 M.: n. 1515 B.; Booby-hill 300 M.: n. 1620 B.; locality unknown: n. 50 L.; Crespeen—Rendez-vous: n. 130; St. John's: n. 134; Hellsgate: n. 133.

St. Martin: Mountain between Mont des Accords and Centry-hill 0—200 M.: n. 2868 B.; hill on the northern side of Cul de Sac 0—100 M.: n. 3001 B.

I also saw Oxalis corniculata on the top of Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Warmer countries of both hemisph. (Symb.).

Oxalis Martiana Zucc. in Denkschr. Akad. Münch. IX (1823—24) 144.

Cultivated. [Madagascar]. (Ind. Kew.).

134. Erythroxylaceae.

3956. **Erythroxylum** Linn.

Erythroxylum brevipes DC. Prodr. I (1824) 573; Millspaugh 497.

St. Martin: Colebayhill: n. 2014; Prince quarter: n. 2018: John Ednyhill: n. 2015.

St. Croix (Symb.).

Cuba, Hispaniola, St. Thomas, St. Barthélemy, Guadeloupe. (Symb.).

Erythroxylum havanense Jacq. Enum. Pl. Carib. (1760) 21.

Erythroxylum obtusum DC. Prodr. I (1824) 574; Gris. Fl. 113. p. p. (Symb.). Bracelet.

St. Eustatius: Top of the Quill 400 M.: n. 217 B., 329 B.; 500 M.: n. 495 B.; from Little Mountains to Venusbay: n. 958 B.

Saba: between Bottom and Marypoint 300 M.: n. 1478 B.; Springbaygut: n. 2118 B.; Laddergut: n. 2017.

St. Martin: Milldrumhill 300—400 M.: n. 3155 B.; Mount Paradis 200—300 M.: n. 3314 B.

Cuba, Isla de Pinos. (Symb.).

135. Zygophyllaceae.

3968. **Guaiacum** Linn.

Guaiacum officinale Linn. Spec. (1753) 381; Gris. Fl. 134; Duss 136; Millspaugh 498.

St. Martin: Tintamarre: n. 3370 B., 3378 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. austr. (Symb.).

3978. **Tribulus** Linn.

Tribulus cistoides Linn. Spec. (1753) 387; Gris Fl. 134; Duss 136; Millspaugh 498.

St. Martin: near Filipsburg: n. 2388 B.; Fort Willem: n. 2548 B.

St. Croix ex Millspaugh.

Florida austr., Baham., Antill., trop. countries of both hemisph. (Symb.).

3979. **Kallstroemia** Scop.

Kallstroemia maxima Wight et Arn. Prodr. I (1834) 145; Millspaugh 498.

Tribulus maximus Linn. Spec. (1753) 386; Gris. Fl. 134; Duss 136.

St. Eustatius: in a garden in Oranjestad: n. 511 B.; Bengalen: n. 616 B.; Cultuurvlakte: n. 243, 248, 249; locality unknown: n. 30 G.

Saba: Windwardside: n. 1951 B.; Bottom: n. 247.

St. Martin: from Guanabay to Filipsburg: n. 2437 B.; along roads near Filipsburg: n. 2530 B.; Centryhill: n. 246; Marigot-road: n. 244, 245.

St. Croix ex Millspaugh.

Key Ins., Baham., Antill., Amer. from the Southern U. S. to Bolivia. (Symb.).

137. Rutaceae.

3991. **Fagara** Linn.

Fagara flava Kr. et Urb. in Engl. Jahrb. XXI (1896) 571.

Xanthoxylum flavum Vahl. Eclog. III (1807) 48; Duss 140; Millspaugh 499. Yellow saunder.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Key Ins., Baham., Antill. (Symb.).

Fagara martinicensis Lam. Ill. I (1791) 334 n. 1639 t. 811 f. 1.

Xanthoxylum clava Herculis Sw. Obs. (1791) 375 (non Linn.); Gris. Fl. 138; Millspaugh 499.

Xanthoxylum martinicense P. DC. Prodr. I (1824) 726; Duss 141. Yellow prickle.

St. Eustatius: Quill: n. 190 B., 416*a* B., 1.

Saba: Windwardside: n. 1942 B.; Mountain near Hellsgate: n. 2279 B.

St. Martin: along roads in Cul de Sac: n. 2989*a* B.

St. Croix ex Millspaugh.

Cuba, Jamaica, Hispaniola, Portorico, St. Thomas, St. Jan, Tortola, Montserrat, Guadeloupe, Desirade, Martinique, St. Lucia, Trinidad. (Symb.).

Fagara spinifex Jacq Fragm. (1809) p. 10 t. 6 f. 2.

Fagara microphylla Desv. Tabl. I ed. (1804) 200; Gris. Fl. 137 (excl. syn. Br. et L.). (Symb.); Duss 139; Millspaugh 499.

Xanthoxylum spinifex P. DC. Prodr. I (1824) 728.

St. Martin: between Mount Vernon and Orientbay: n. 2928 B.; from Belvedere to Oysterpond: n. 3062 B.; Mount Paradis 100—200 M.: n. 3296 B.; gut from Bethlehem to Cul de Sac 100—200 M.: n. 3425 B.; Prince quarter: n. 2, 3.

Anguilla Boldingh.
St. Croix ex Millspaugh.
Antill., Venezuela. (Symb.).

Fagara trifoliata Sw. Prodr. (1788) 33.
Tobinia ternata Desv. in Ham. Prodr. (1825) 57; Gris. Fl. 136.
Tobinia punctata Gris. Flor. W. I. (1859) 137; Duss 138; Millspaugh 499.
Xanthoxylum ternatum Sw. Flor. I (1797) 570.
St. Eustatius: Top of the Quill 400 M.: n. 204 B.
St. Martin: from Filipsburg to Guanabay: n. 2386 B.; Point Blanche (coll. George): n. 2492 B.; Nakedboyhill 50—200 M.: n. 2708 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2953 B.; from Belvedere to Oysterpond: n. 3056 B., 3074 B., 3081 B., 3082 B.; Prince quarter: n. 4, 10, 11, 12, 13; Centryhill: n. 15.
Anguilla Boldingh.
St. Croix ex Millspaugh.
Jamaica, Hispaniola, Portorico, St. Barthélemy, Antigua, Montserrat, Guadeloupe, Marie-Galante, Desirade, Les Saintes, Dominica, Martinique, St. Lucia, St. Vincent, Barbados, Trinidad. (Symb.).

4084. **Amyris** Linn.

Amyris elemifera Linn. Syst. X ed II (1759) 1000; Duss 183.
St. Martin: Tintamarre: n. 3391 B., 3395 B.
St. Croix (Symb.).
Baham., Florida austr., Key West, Antill. (Symb.).

4090. **Murraya** Linn.

Murraya exotica Linn. Mant. II (1771) 563; Duss 132; Millspaugh 499. Boxwood.
St. Eustatius: in a garden in Oranjestad: n. 937 B., 40 G.; Little Mountain—Boven: n. 14.
Saba: Windwardside: n. 1908 B.; locality unknown: n. 281 L.
St. Martin: Hills on the eastern side of Cul de Sac: n. 3446*a* B.
St. Croix ex Millspaugh.
Antill.; Ind. in Asia austro-orient., Austral. sept., Polynes. (Symb.).

4094. **Triphasia** Lour.

Triphasia trifoliata P. DC. Prodr. I (1824) 536; Duss 132; Millspaugh 499. Myrtle lemon.

Triphasia aurantiola Lour. Fl. Cochinchin. (1790) 153.

St. Eustatius: in a garden in Oranjestad: n. 538 B.; Bengalen: n. 613 B.; seashore: n. 24, 26; locality unknown: n. 226 G.

Saba: Bottom: n. 1856 B.; locality unknown: n. 97 L.

St. Martin: Cul de Sac—Marigot 0—200 M.: n. 2622 B.; hills on the eastern side of Cul de Sac: n. 3447 B.

St. Croix ex Millspaugh.

Antill.; Indig. in India orient. (Symb.). Also cultivated.

4100. **Citrus** Linn.

The author was not yet able to find out with a security so great, to make it possible to mention it in this Flora the names of the different species of Citrus that are cultivated in the gardens.

Only one plantation of Citrus Limonum Risso in Saba be mentioned.

138. Simarubaceae.

4106. **Suriana** Linn.

Suriana maritima Linn. Spec. (1753) 284; Gris. Fl. 58; Duss 48; Millspaugh 499.

St. Eustatius: Seashore near Concordiabay: n. 36; near Seafeathersbay: n. 35;

I also saw Suriana maritima at the seashore near English Quarter.

St. Martin: Colebay (coll. George): n. 1643 B; from Belvedere to Oysterpond: n. 3043 B.

I also saw Suriana maritima near Mulletpond.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., trop. countries of both hemisph. (Symb.).

4121. **Picrasma** Blume.

Picrasma antillana Urb. in Symbolae Antillanae V (1908) 378.

Picraena excelsa Gris. in Flor. W. I. (1859) 140 (p. p.); Duss 143; (Symb.).

St. Eustatius: Quill: n. 448 B., 461*a* B.; locality unknown: n. 210*a* G.

Saba: from Bottom to Marypoint 100—200 M.: n. 1465*a* B.; near Hellsgate: n. 1697*a* B.: locality unknown: n. 2073*a* B., 341 L.; Cresp.—Rendez-vous 400 M.: n. 44.

St. Martin: Mount Paradis: n. 3219*a* B.

St. Croix (Symb.).

St. Thomas, St. Jan, St. Kitts, Antigua, Guadeloupe, Martinique, St. Vincent, Barbados. (Symb.).

4131. **Picramnia** Sw.

Picramnia pentandra Sw. Flor. I (1797) 220; Gris. Fl. 140; Duss 142. Wild coffee, Bastard bough.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2639 B.; Nakedboyhill 50—200 M.: n. 2690 B., 2697 B., 2714 B,; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2878 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2956 B., 2962 B.; top of the hill on the northern side of Cul de Sac 200—300 M.: n. 3010 B.; Milldrumhill 300—400 M.: n. 3184 B.; Mount Paradis 150—400 M.: n. 3197 B., 3299 B., 3345 B.; Centryhill: n. 92, 93; Prince quarter: n. 90; French frontier: n. 37, 38, 39; locality unknown: n. 3621 B., 91.

I also saw Picramnia pentandra: from Belvedere to Oysterpond.

Florida austr., Key Ins., Baham., Antill. (Symb.).

139. Burseraceae.

4150. **Bursera** Linn.

Bursera simaruba Sarg. Gard. and For. III (1890) 260.

Bursera gummifera Jacq. Sel. (1763.) 94 t. 65; Gris. Fl. 173; Duss 181; Millspaugh 500. Gum tree, Balsam tree, Lime tree.

St. Eustatius: near Tumbledowndickbay: n. 139*a* B., 146*a* B.; top of the Quill 400 M.: n. 202 B.; slope of the Quill on the side of White Wall 200 M.: n. 1182 B.; locality unknown: n. 106 H., 200 G.

I also saw Bursera simaruba in a gut near Fort de Wind.

Saba: Seashore near Saddle: n. 1652*a* B.; gut near Devilshand: n. 2078*a* B.; locality unknown: n. 290 L.

I also saw Bursera simaruba: in Hellsgate, Tentgut, Springbaygut.

St. Martin: Marigotroad: n. 2819*a* B.; French frontier: n. 71, 72.

I also saw Bursera simaruba: Top of Nakedboyhill; near Saline; along roads from Filipsburg to Simsonsbay; Vallée des Pères; Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida, Key Ins., Baham., Antill., Curaçao, from Mexico to Nova Granata and Venezuela. (Symb.).

140. Meliaceae.

4164. **Swietenia** Jacq.

Swietenia mahagoni Jacq. Enum. (1760) 20; Gris. Fl. 131; Duss 130; Millspaugh 500. Mahagony.

St. Eustatius: Bottom of the Quill 300 M.: n. 216 B.; in a garden in Oranjestad: n. 1072 B.; locality unknown: n. 82 H.

Saba: Laddergut 0—200 M.: n. 1978 B.; Greathill: n. 92; locality unknown: n. 12 L.

I also saw Swietenia mahagoni: near Marypoint.

St. Croix ex Millspaugh.

Key Ins., Baham., Antill., Mexico, Amer. centr., Peru. (Symb.). Also cultivated.

4175. **Melia** Linn.

Melia azedarach Linn. Spec. (1753) 384; Millspaugh 500.

Melia sempervirens Sw. Prodr. (1788) 67; Gris. Fl. 128; Duss 126. Lilac.

St. Eustatius: in a garden in Oranjestad: n. 44 H., 139 G.

I also saw Melia azedarach in the slope of the Cliff.

Saba: Crispeen 400 M.: n. 1722 B.; Mountain near Windwardside 600 M.: n. 2163 B.; Peperpot: n. 93; Crispeen—Rendez-vous 400 M.: n. 92; locality unknown: n. 125 L.

St. Martin: near Bethlehem: n. 2661 B.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., warmer countries of both hemisph. (Symb.). Also cultivated.

141. Malpighiaceae.

4226. **Heteropteryx** Juss.

Heteropteryx purpurea H. B. K. Nov. Gen. V (1821) 163; Duss 116; Millspaugh 498.

St. Eustatius: Hills near Concordia 100 M.: n. 950 B.; from Little Mountains to Venusbay: n. 990*a* B.; slope of the Quill on the side of White Wall 200 M.: n. 1179 B.; Pongo—Signalhill: n. 1965; Red Cliff: n. 1969; Sugarloaf: n. 1966, 1967, 1968.

St. Croix ex Millspaugh.

Antill., Venezuela, Colombia. (Symb.).

4228. **Stigmatophyllon** Juss.

Stigmatophyllon ciliatum A. Juss. in A. St. Hil. Fl. Bras. Mer. III (1827) 49.

Cultivated. [Jamaica, Brasil.]. (Gris. Fl.).

Stigmatophyllon periplocifolium A. Juss. Malp. Syn. (1840) 290; Gris. Fl. 119; Duss 116; Millspaugh 498. Goat bush.

St. Eustatius: Seashore near Oranjestad: n. 31 B.; in a garden in Oranjestad: n. 96 B.; deserted plantation near Tumbledowndick-bay: n. 142 B., 171 B.; top of the Quill 400 M.: n. 191 B., 212 B.; slope of the Quill near Bengalen 150 M.; n. 686 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 791 B.; along roads in Oranjestad: n. 922 B.; lower part of the hills near Concordia: n. 980 B.; Signalhill 150 M.: n. 1042 B., 1052 B.; along roads in Oranjestad: n. 1129 B.; Cultuurvlakte: n. 608, 609, 619, 630; locality unknown: n. 137 G., 144 H.

St. Martin: from Filipsburg to Guanabay: n. 2407 B.; from Filipsburg to Belvedere: n. 2557 B.; Cul de Sac—Marigothill 0—200 M.: n. 2629 B.; lower part of the Milldrumhill: n. 3171 B.; Tintamarre: 3398; Vineyardhill: n. 618; Cul de Sac: n. 639; Colebayhill: n. 94.

I also saw Stigmatophyllon periplocifolium on: Marigothill—Marigot; Nakedboyhill.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Cuba, Jamaica, Hispaniola, Portorico, St. Thomas, St. Jan, Antigua, Martinique, St. Lucia. (Symb.).

Stigmatophyllum sericeum Wright ex. Gris. Cat. Pl. Cub. (1866) 43.

Stigmatophyllum diversifolium A. Juss. in Arch. Mus. Par. III (1843) 381.

St. Martin: Lowlands: n. 3286 B.

Anguilla Boldingh.

Cuba (Herb. Krug et Urban).

4244. **Galphimia** Cav.

Galphimia gracilis Bartl. in Linnaea XIII (1839) 552.

Cultivated. [Mexico.]. (Symb.).

4251. **Malpighia** Linn.

Malpighia angustifolia Linn. Spec. (1762) 610; Gris. Fl. 117; Duss 113. Bastard cherry.

St. Martin: lower part of the hills between Mont Chambord and Mount Vernon: n. 2920 B.; along roads from Grande Case to Marigot: n. 3090 B.

I also saw Malpighia angustifolia near Saline.

St. Thomas, St. Jan, Antigua, Guadeloupe, St. Lucia. (Niedenzu 1899).

Malpighia punicifolia Linn. Spec. (1762) 609; Gris. Fl. 116; Duss 113. Cherry.

St. Eustatius: Seashore near Oranjestad: n. 28 B.; slope of the lower part of Signalhill: n. 107 B.; Oranjestad: n. 97; Gilboohill: n. 38; along the road to Sugarloaf: n. 87; locality unknown: n. 63 H., 78 G.

I also saw Malpighia punicifolia: top of Signalhill; top of the Cliff between Oranjestad and White Wall.

Saba: between Bottom and Marypoint 100—200 M.: n. 1546 B.; locality unknown: n. 1477 B., 334 L.

St. Martin: from Guanabay to Filipsburg: n. 2435 B.; Marigotroad near Marigot: n. 2809 B., 2810 B.; Prince quarter: n. 47. 57, 58.

Anguilla Boldingh.

St. Croix (Symb.).

St. Thomas, Antigua, St. Barthelemy, Guadeloupe, Martinique, Trinidad, Margarita, Bonaire, Curaçao. (Symb.).

4252. **Bunchosia** L. Cl. Rich.

Bunchosia jamaicensis Urb. et Ndz. Index Lect. in Lyc. Reg. Hos. Brunsb. de Genere Bunchosia (1898) 10.

Bunchosia Lindeniana Gris. Flor. W. I. (1860) 115.

Saba: Seaside of Tentguthill 100 M.: n. 1655 B.; Windwardside: n. 1943 B.

Antill., Mexico, Costarica, Guiana. (Gris. Fl.).

Bunchosia nitida L. Cl. Rich. ap. Juss. in Ann. Mus. Par. XVIII (1811) 481.

St. Martin: between Mont Chambord and the Saline: n. 2924 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2963 B.; near Simsonsbayvillage: n. 3257 B.; Mount Paradis 300—400 M.: n. 3322 B.

Hispaniola, Montserrat, Guadeloupe, Martinique, St. Vincent, Bequia, Barbados, Grenada. (Symb.). Surinam. (Pulle).

4255. **Byrsonima** L. Cl. Rich.

Byrsonima crassifolia H. B. K. Nov. Gen. V (1821) 149; Gris. Fl. 114. (vel. B. martinicensis Kr. et Urb.?)

St. Martin: Lowlands: n. 2381*a* B.

Antill., Amer. austr. sept. (Symb.).

Byrsonima lucida L. Cl. Rich. ap. Juss. in Ann. Mus. Par. XVIII (1811) 481; Gris. Fl. 115; Duss 111.

St. Martin: Lowlands: n. 3621 B.

Anguilla Boldingh.

Key Ins., Baham., Antill. (Symb.).

Byrsonima spicata L. Cl. Rich. ap. Juss. in Ann. Mus. Par. vol. XVIII (1811) 481; Gris. Fl. 115; Duss 111; Millspaugh 497. Holly hock.

St. Eustatius: Top of the Quill 380 M.: n. 253 B.; inner slope of the Quill 350 M.: n. 1229 B.; Quill: n. 80 H.

Saba: Windwardside—Hellsgate: n. 1679 B.; Windwardside: n. 1944 B.

St. Croix ex Millspaugh.

Antill., Panama, Venezuela, Guiana, Brasilia. (Symb.).

147. Euphorbiaceae.

4299. **Phyllanthus** Linn.

Phyllanthus distichus Müll. Arg. in DC. Prodr. XV. 2 (1866) 413; Millspaugh 500.

Cicca disticha Linn. Mant. I (1767) 124; Gris. Fl. 32; Duss 20.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 52 B.; in a garden in Oranjestad: n. 90 H., 148 G.

Saba: Bottom: n. 1876 B.; locality unknown: n. 116 L., 238 L.

St. Martin: Top of the hill on the northern side of Cul de Sac 200—300 M.: n. 2992 B.

St. Croix ex Millspaugh.

Antill.; Indig. in India orient? (Symb.). Also cultivated.

Phyllanthus epiphyllanthus Linn. Spec. (1763) 1392; Duss 25.

Phyllanthus falcatus Sw. Flor. II (1800) 1115; Gris. Fl. 35.

St. Martin: Colebay (coll. George): n. 2502 B.; shore of the Simsonsbaylagoon near Cul Piquard: n. 2744 B.; near Mulletpond: n. 2785 B.

I also saw Phyllanthus epiphyllanthus: Lowlands.

Anguilla Boldingh.

Baham., Antill. (Symb.).

Phyllanthus niruri Linn. Spec. (1753) 981; Gris. Fl. 34; Duss 23; Millspaugh 501. Surinaam bitter.

St. Eustatius: in a garden in Oranjestad: n. 76 B.: along roads in Oranjestad: n. 579 B.; along roads near Glassbottle: n. 871 B.; locality unknown: n. 41 G., 34 H.

Saba: lower part of the Bottom Mountain 300 M.: n. 1429 B.;

St. Martin: from Filipsburg to Guanabay: n. 2408 B.; lower part of the Milldrumhill: n. 3166 B.; in a plantation of Cotton near Bethlehem: n. 3410 B.

I also saw Phyllanthus niruri in pastureground near Bellevue.

St. Croix ex Millspaugh.

Bermud., Baham., Antill., almost all warmer countries of both hemisph. (Symb.).

Phyllanthus nobilis Müll. Arg. in DC. Prodr. XV 2 (1866) 114; Millspaugh 501

Cicca antillana A. Juss. Tent. Euphorb. (1824) 108 t. 4 f. 13 B.; Gris. Fl. 33; Duss 21. Gooseberry.

Saba: Gainbygut: n. 2074; locality unknown: 43 L.

St. Martin: Nakedboyhill: n. 2735*a* B.; Mount Paradis: n. 3202*a* B.

St. Croix ex Millspaugh.

Antill., Guiana. (Symb.).

4348. **Croton** Linn.

Croton astroites Dryand. in Ait. Hort. Kew. I ed. vol. III (1789) 375; Gris. Fl. 42; Duss 33; Millspaugh 501. Wild marrow.

St. Eustatius: Slope of the Quill above White Wall: n. 2 B.; slope of the lower part of White Wall: n. 97 B.; Signalhill 200 M.: n. 128 B.; gut near Fort de Wind 50 M.: n. 826 B.; along a road in Oranjestad: n. 930 B.; hill near Concordia 100 M.: n. 949 B.; top of Signalhill 225 M.: n. 1030 B.; Signalhill 200 M.: n. 1047 B.; near Maryglory 150 M.: n. 1147 B.; along roads near Bengalen: n. 1194 B.; near Boven 200 M.: n. 1239*a* B.; Cultuurvlakte: n. 125; Pangohill: n. 122, 123; Gilboohill: n. 124; Sugarloaf: n. 128; locality unknown: n. 150*a* B., 269 B., 171 G., 3577 B.

St. Martin: from Filipsburg to Guanabay: n. 2362 B.; Fort Willem 50 M.: n. 2536 B.; locality unknown: n. 3611 B.; near Fort Amsterdam: n. 126, 127.

I also saw Croton astroites: Cul de Sac; Nakedboyhill.

St. Croix ex Millspaugh.

Portorico, St. Thomas, St. Jan, St. Barthélemy, St. Kitts, Antigua, Guadeloupe, Desirade. (Symb.).

Croton betulinus Vahl Symb. II (1791) 98; Duss 32; Millspaugh 501. Black sage.

St. Martin: Marigotroad near Marigot: n. 2802 B.; in pastureground near Bellevue: n. 2826 B.; Mountain between Mont des Accords and Centryhill: n. 2865 B.; along roads near Colebay: n. 3025 B.; shore of the Simsonsbaylagoon near Cul Piquard: n. 2739 B., 2743 B., 2746 B.; Lowlands: n. 3265 B.; Tintamarre: n. 3384 B.

I also saw Croton betulinus: one of the islands in Simsonsbaylagoon.

Anguilla Boldingh.
St. Croix ex Millspaugh.
Florida austr., Antill. (Symb.).

Croton flavens Linn. Syst. X ed. II (1759) 1276; Gris. Fl. 38; (excl. syn. Willd.). (Symb.); Millspaugh 501. Marrow, Yellow balsem.

Croton balsamifer Jacq. Enum. Pl. Carib. (1760); Duss 31.

St. Eustatius: on the slope of the Cliff near Gallowsbay: n. 61 B.; in deserted plantations at the seashore near Bengalen: n. 582 B., 584 B., 594 B., 597 B., 599 B.; slope of the Quill near Bengalen 200 M.: n. 737 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 775 B., 778 B., 785 B., 792 B.; Fort de Wind: n. 795 B.; seashore near Venusbay: n. 968 B.; Gilboohill 150 M.: n. 1124 B.; along roads near Bengalen: n. 1195 B.; slope of the hills near Concordiabay: n. 131; Cultuurvlakte: n. 130, 132; Tumbledowndickbay: n. 133; Venusbay: n. 134; Sugarloaf: n. 140; locality unknown: n. 54 H., 120 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1321 B.; along the Forthgut 150—200 M.: n. 1627 B.; along the lower part of the Forthgut: n. 1643*a* B.; St. Giles: n. 1865 B.; Laddergut 0—200 M.: n. 1971 B.; Ladderlanding: n. 135, 136; Greathill 200 M.: n. 141; Quarter 300 M.: n. 249; Marypoint: n. 250; locality unknown: n. 315 L.

St. Martin: from Filipsburg to Guanabay: n. 2351 B.; Guanabay: n. 2431 B.; Prince quarter (coll. George): n. 2469 B.; Fort Willem 0—50 M.: n. 2531 B., 2543 B.; near Bethlehem: n. 2662 B., shore of the Simsonsbaylagoon near Cul Piquard: n. 2741 B.; road near Fort Willem: n. 2796 B.; between Mount Vernon and Orientbay: n. 2937 B.; near Simsonbayvillage: n. 3256 B.: Green Key: n. 3364 B., 3867 B.; Tintamarre: n. 3382 B.; Filipsburg: n. 137; Centryhill: n. 138; Vineyardhill: n. 139; locality unknown: n. 37.

I also saw Croton flavens: from Belvedere to Oysterpond; between Mount Vernon and Saline; Nakedboyhill.

Anguilla: Boldingh.

St. Croix ex Millspaugh.

Hispaniola, Portorico, St. Thomas, St. Jan. (Symb.). Baham. (Herb. Leiden).

Croton lobatus Linn. Spec. (1753) 1005; Gris. Fl. 42; Duss 33; Millspaugh 501. Lilacbush.

St. Eustatius: in a garden in Oranjestad: n. 74 B., 1276 B.; along roads in Oranjestad: n. 564 B.; Fairplay: n. 167; slope of the Quill: n. 164, 165, 166; locality unknown: n. 92 G., 177 H.

Saba: Bottom: n. 1839 B., 1843 B.

St. Martin: Colebayhill: n. 161.

I also saw Croton lobatus near Belvedere.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Bonaire, Curaçao, Aruba, Amer. cont. trop. (Symb.).

4358. **Ditaxis** Vahl.

Ditaxis fasciculata Vahl ap. A. Juss. Tent. Euph. (1824) p. 110 t. 7 f. 24; Gris. Fl. 44; Millspaugh 501.

St. Martin: Prince quarter: (coll. George) n. 2457 B.; near Nakedboyhill: n. 2566 B., 2733*a* B.; Point Blanche: n. 3405 B.; Vineyardhill: n. 769; locality unknown: n. 21.

St. Croix ex Millspaugh.

Cuba, Portorico, St. Thomas, St. Jan. (Symb.).

4360. **Argithamnia** Sw.

Argithamnia candicans Sw. Prodr. (1788) 39; Gris. Fl. 44; Millpaugh 502.

St. Martin: Fort Willem 0—50 M.: n. 2540 B.; Nakedboyhill 50—200 M.: n. 2700 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2959 B.; Mount Paradis 200—300 M.: n. 3317 B.; Tintamarre: n. 3401 B.; Colebayhill: n. 2075; Centryhill: n. 767.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., (Hitchc.). Antill.

4374. **Bernardia** Adans.

Bernardia corensis Müll—Arg. in Linnaea XXXIV. (1865. 66) 173; Duss 35.

Polyboea corensis Klotsch. in End. Gen. Suppl. IV. III (1850) 88. Gris. Fl. 46.

St. Eustatius: Top of the Quill 400 M.: n. 195 B., 226 B., 398 B., 404 B.; slope of the Quill near Bengalen 100 M.: n. 665 B.; Signalhill 200 M.: n. 1050 B.

St. Martin: Mount Paradis 300—400 M.: n. 3224 B.; Mount Paradis 200—300 M.: n. 3303 B.

Haiti, St. Barthélemy, Martinique, Dominica, Guadeloupe, Grenada, St. Vincent, Curaçao. (Herb. Krug et Urban).

4397. **Adelia** Linn.

Adelia ricinella Linn. Syst. X. ed. II (1759) 1298; Gris. Fl. 45; Millspaugh 502.

St. Martin: Filipsburg near the Saltponds: n. 2357 B.; from Filipsburg to Fort Amsterdam: n. 2566 B.; Prince quarter (coll. George): n. 2457 B.; top of Nakedboyhill: n. 2711 B.; Point Blanche: n. 3405 B.; near Fort Amsterdam: n. 750; Colebayhill: n. 751; Prince quarter: n. 752.

St. Croix ex Millspauch.

Cuba, Jamaica, Hispaniola, Portorico, St. Thomas, St. Jan. (Symb.).

4407. **Acalypha** Linn.

Acalypha chamaedrifolia Müll. Arg. in DC. Prodr. XV. 2. (1866) 879; Duss 35.

Acalypha reptans Sw. Prodr. (1788) 99; Gris. Fl. 48; Millspaugh 502. Bastard nettle.

St. Eustatius: along roads in Oranjestad: n. 552 B., 921 B.

Saba: between Bottom and Marypoint 100—200 M.: n. 1519*a* B., 1520 B., 1540 B.; Hellsgate: n. 1692 B.; Laddergut 0—200 M.: n. 1962 B.; Windwardside: n. 2334 B.

St. Martin: in an orchard near Bellevue: n. 2850 B.; from Grande Case to Marigot: n. 3092 B.; lower part of Milldrumhill: n. 3159 B.

St. Croix ex Millspaugh.

Florida austral., Antill. (Symb.).

Acalypha Poiretii Spreng Syst. III (1826) 879.

St. Martin: near Grande Case: n. 3092 B.

Anguilla Boldingh.
St. Thomas, Curaçao. (Herb. Krug et Urban).

Acalypha Wilkesiana Müll—Arg. in DC. Prodr. XV. 2. (1866) 817.
Cultivated. [Ins. Pacif.]. (Symb.).

4416. **Tragia** Linn.

Tragia volubilis Linn. Spec. (1753) 980; Gris. Fl. 48; Duss 36; Millspaugh 502.

St. Eustatius: Top of the Quill 400 M.: n. 225 B., 252 B., 282 B.; inner slope of the Quill near Bengalen 350 M.: n. 703 B.

Saba: between Bottom and Marypoint 100—200 M.: n. 1467 B.; Mountain 600—800 M.: n. 1791 B.; Laddergut 0—200 M.: n. 2011 B.

St. Martin: Nakedboyhill 50—200 M.: n. 2710 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2894*a* B.; Mount Paradis 200—300 M.: n. 3308 B.

St. Croix ex Millspaugh.

Antill., Curaçao, Amer. cont. trop., Afr. occ. (Symb.).

4422. **Dalechampia** Linn.

Dalechampia scandens Linn. Spec. (1753) 1054; Gris. Fl. 51; Duss 40; Millspaugh 502.

St. Eustatius: near Maryglory 150 M.: n. 1143 B.

St. Martin: Nakedboyhill 280 M.: n. 2735 B.

St. Croix ex Millspaugh.

Antill., Amer. cont. trop., (Afr. trop. and Ind. or.) (Symb.).

4424. **Ricinus** Linn.

Ricinus communis Linn. Spec. (1753) 1007; Gris. Fl. 37; Duss 30; Millspaugh 502. Castoroil plant.

St. Eustatius: locality unknown: n. 23 H., 26 G., 27 G., 258 G., 288 H., 289 H.

I also saw Ricinus communis: Seashore near Oranjestad.

Saba: Boobyhill 300 M.: n. 1586 B.; locality unknown: n. 64 L.;

I also saw Ricinus communis: Laddergut.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Indig. veris. in Africa. (Symb.). Also cultivated.

4428. **Aleurites** Forst.

Aleurites moluccana Willd. Spec. Pl. IV. 1 (1805) 590. Wild date.

Cultivated. [Asia austr. orient. and Ins. pacific.] (Symb.).

4433. **Jatropha** Linn.

Jatropha curcas Linn. Spec. (1753) 1006; Gris. Fl. 36; Duss 27; Millspaugh 502. Grave physic nut.

St. Eustatius: between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 771 B.; along roads near Glassbottle: n. 1209 B.; seashore: n. 242, 2073; Cultuurvlakte: n. 244; locality unknown: n. 52 G., 168 H.

Saba: Bottom: n. 243.

I also saw Jatropha curcas in Forthbaygut; Hellsgategut.

St. Martin: from Filipsburg to Belvedere: n. 2595 B., 2601 B.; along roads from Grande Case to Marigot: n. 3106 B.; Cul de Sac: n. 245.

St. Croix ex Millspaugh.

Bermud., Antill., Amer. cont. trop. (Symb.).

Jatropha gossypifolia Linn. Spec. (1753) 1006; Gris. Fl. 36; Duss 25; Millspaugh 502. Physic nut.

St. Eustatius: Seashore near Oranjestad: n. 19 B.; along roads in Oranjestad: n. 570 B., 558 B., 1126 B.; in deserted plantations near Bengalen: n. 589 B.; seashore: n. 247, 249; Cultuurvlakte: n. 246; locality unknown: n. 132 G., 133 G., 196 H., 197 H.

I also saw Jatropha gossypifolia: on Signalhill 200 M.; top of the Cliff between Oranjestad and White Wall.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1360 B.; along the Forthgut 0—150 M.: n. 1639 B.; locality unknown: n. 241 L., 313 L.

I also saw Jatropha gossypifolia in: Laddergut.

St. Martin: lower part of Milldrumhill: n. 3113 B.

I also saw Jatropha gossypifolia: along roads from Filipsburg to Nakedboyhill; in pastureground near Bellevue.

St. Croix ex Millspaugh.

Key Ins., Baham., Antill., Curaçao, Aruba, Amer. cont. trop. Africa occ. (Symb.).

Jatropha multifida Linn. Spec. (1753) 1000. Coral plant.

Cultivated. [Amer. cont. trop.] (Symb.).

4444. **Manihot** Adans.

Manihot utilissima Pohl Plant. Bras. I (1827) p. 32 t. 24. Cassave.

Cultivated. [Amer. cont. trop.]. (Symb.).

4454. **Codiaeum** A. Juss.

Codiaeum variegatum Bl. Bijdr. XII (1825) 606. Croton.

Cultivated. [Ins. Sundaic.]. (Symb.).

4483. **Sapium** Jacq.

Sapium spec. (without flowers or fruits).

Saba: Top of the Mountain 600 M.: n. 2189 B.

4486. **Hippomane** Linn.

Hippomane mancinella Linn. Spec. (1753) 1191; Gris. Fl. 50; Duss 37; Millspaugh 503. Mangeniel tree.

St. Eustatius: Seashore near Oranjestad: n. 16 B.; Concordiabay: n. 184; seashore: n. 182; locality unknown: n. 1014 B., 324 H.

I also saw Hippomane mancinella: seashore near Tumbledowndickbay.

Saba: Seashore near Flat Point: n. 2133 B.

St. Martin: from Filipsburg to Guanabay: n. 2345 B.; near Fort Willem: n. 2799 B.

I also saw Hippomane mancinella: along roads from Filipsburg to Nakedboyhill; Cul de Sac; Fort Willem; near Mont Chambord; near Saline; near Grande Case; Vallée des Pères; one of the islands in the Simsonbay-lagoon; Lowlands; Green Key; Tintamarre.

St. Croix ex Millspaugh.

Florida austr., Baham., Antill., Curaçao, from Mexico to Venezuela. (Symb.).

4488. **Actinostemon** Mart. ex Klotzsch.

Actinostemon caribaeus Gris. in Goett. Abh. VII (1857) 168.

Excoecaria caribaea Gris. Flor. W. I. (1859) 51; Duss 40.

St. Eustatius: Great gut: n. 748, 749.

St. Martin: Milldrumhill: n. 3143*a* B., 3148 B.; John Ednyhill: n. 345, 346, 347, 348, 2051.

Antill. (Herb. Krug et Urban); Amer. cont. (Herb. Leiden).

4492. **Gymnanthes** Sw.

Gymnanthes lucida Sw. Prodr. (1788) 96: Millspaugh 503.

Excoecaria lucida Sw. Flor. II (1800) 122; Gris. Fl. 50; Duss 39.

St. Eustatius: Top of the Quill 450 M.: n. 348 B., 372 B.; Signalhill: n. 1036 B.: near Maryglory 150 M.: n. 1152 B., 1161 B.: locality unknown: n. 333 H.

St. Croix ex Millspaugh.

Florida austr., Baham., Antill. (Symb.).

4493. **Hura** Linn.

Hura crepitans Linn. Spec. (1753) 1008; Gris. Fl. 50; Duss 38; Millspaugh 503. Sandbox tree.

St. Eustatius: along roads in Oranjestad: n. 546 B., 142 H., 147 G.

St. Martin: from Filipsburg to Belvedere: n. 2596 B.

St. Croix ex Millspaugh.

Baham., Antill., Amer. cont. trop. (Symb.).

4098. **Euphorbia** Linn.

Euphorbia articulata Burm. ex Aubl. Pl. Gui. I (1775) 480; Gris. Fl. 53; Millspaugh 503.

Euphorbia linearis Retz. Obs. III (1791) 32; Duss 41.

St. Eustatius: between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 767 B.; gut near Fort de Wind 50 M.: n. 847 B.; lower part of the hills near Concordia: n. 976 B., 2071; Tumbledowndickbay: n. 2070; White Wall: n. 2068, 2069.

Saba: Green Island: n. 2131 B.

St. Croix ex Millspaugh.

Portorico, St. Thomas, Culebra Island, St. Kitts, Guadeloupe, Martinique, St. Vincent. (Herb. Krug. et Urban).

Euphorbia buxifolia Lam. Encyc. II (1786) 421; Gris. Fl. 53; Duss 42; Millspaugh 503.

St. Eustatius: White Wall: n. 811 B.; seashore near White Wall: n. 854 B.; seashore: n. 2065; Seafeatersbay: n. 2076, 2077; White Wall: n. 2064.

St. Martin: Colebay (coll. George): n. 2517 B.; Green Key: n. 3361 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida and Mexico and throughout the West Indies (Hemsley 1884).

Euphorbia heterophylla Linn. Spec. (1753) 453; Gris. Fl. 54; Duss 44.

Euphorbia cyathophora Murr. Comm. Gotting. VII (1786) 81; Millspaugh 503. Joseph's coat.

St. Eustatius: Glassgut at the seashore near Oranjestad: n. 49 B.; in a garden in Oranjestad: n. 576 B., 2096, 32 H., 36 G.; Oranjestad: n. 2098; Cultuurvlakte: n. 2097; locality unknown: n. 2078.

St. Martin: near Bethlehem: n. 2668 B.; along roads from Grande Case to Marigot: n. 3095 B.

St. Croix ex Millspaugh.

Bermudas, Eastern North-America, from Illinois southward and through the West Indies and Mexico to Peru and Brazil. (Hemsley 1884).

Euphorbia hypericifolia Linn. Spec. (1753) 454; Gris. Fl. 54; Duss 43; Millspaugh 503.

St. Eustatius: Bengalen: n. 602 B.; along roads near Glassbottle: n. 869 B.; slope of the Quill: n. 2079, 2080, 2095.

Saba: lower part of the Bottom Mountain 250 M.: n. 1399 B.; Laddergut 200 M.: n. 2008 B.; Peperpot: n. 2081; Crespeen—Rendez-vous 400 M.: n. 2083 B.; Bottom: n. 2082; locality unknown: n. 128 L., 161 L.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2654 B.

St. Croix ex Millspaugh.

Bermudas, Eastern States of North-America, West Indies, Mexico and South-America. (Hemsley 1884).

Euphorbia petiolaris Curt. Bot. Mag. (1795) 883: Millspaugh 503.

Euphorbia verticillata Poir. Encyc. Supp. II (1811) 611; Duss 45. Black mangeniel.

St. Martin: near Filipsburg: n. 3341 B.; from Filipsburg to Belvedere: n. 2567 B., 2573 B.; Marigothill—Marigot 0—200 M.: n. 2652 B.; near Simsonsbaylagoon: n. 3033 B.; along roads from Colebay to Simsonsbay: n. 3253 B.; Filipsburg: n. 2031; Vineyardhill: n. 2032; Cul de Sac: n. 2033, 2034.

I also saw Euphorbia petiolaris: along roads near Bethlehem; along roads from Filipsburg to Nakedboyhill: Nakedboyhill: hill between Mont des Accords and Centryhill; near Saline; along roads from Belvedere to Oysterpond; near Grande Case; lower part of Milldrumhill; Lowlands; lower part of Mount Paradis; top of Mount Paradis.

St. Croix ex Millspaugh.

Portorico, St. Thomas, St. Jan, Guadeloupe. (Herb. Krug. et Urban).

Euphorbia pilulifera Linn. Spec. (1753) 454: Gris. Fl. 54; Duss 42; Millspaugh 503. Chickenweed.

St. Eustatius: in a garden in Oranjestad: n. 75 B.; along roads in Oranjestad: n. 512 B., 577 B.; along roads near Glassbottle: n. 875 B.; locality unknown: n. 8 G., 8 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1459 B.; along the lower part of Forthgut: n. 1640 B.; Ladder-gut 0—200 M.: n. 1963 B.; Crespeen—Rendez-vous: n. 2037; locality unknown: n. 239 L.

St. Martin: in an orchard near Bellevue: n. 2840 B.; Centryhill: n. 349.

Anguilla Boldingh.

St. Croix ex Millspaugh.

All tropical countries. (Gris. Fl.).

Euphorbia prostrata Ait. Hort. Kew. ed. I. II. (1789) 139; Gris. Fl. 53; Duss 42; Millspaugh 504.

St. Martin: Guanabay: n. 2433 B.; near Mulletpond: n. 2776 B., 2780 B.

St. Croix ex Millspaugh.

Bermudas, Louisiana and Texas southward to Peru and Brazil.; also in tropical Africa and naturalised in Sicily and elsewhere. (Hemsley 1884).

Euphorbia pulcherrima Willd. ex Klotzsch, in Otto et Dietr. Allg. Gartenz. II (1834) 27. Star of Bethlehem.

Cultivated. [Mexico.] (Ind. Kew.).

Euphorbia thymifolia Linn. Spec. (1753) 454; Duss 42; Millspaugh 504; Children chickenweed.

St. Eustatius: locality unknown: n. 229 H., 255 G.

St. Martin: Lowlands near Cherrycap: n. 3259 B.

All tropical countries. (Gris. Fl.).

4501. **Pedilanthus** Neck.

Pedilanthus tithymaloides Poit. in Ann. Mus. Par. XIX (1812) 390. t. 19; Gris. Fl. 52; Duss 41; Millspaugh 504. Parakiet.

St. Eustatius: along the lower part of Signalhill: n. 123 B.; gut near Fort de Wind 50 M.: n. 842 B.; along roads near Signalhill: n. 1128 B.

Saba: Bottom: n. 2250 B.

St. Martin: from Filipsburg to Guanabay: n. 2377 B.; Prince quarter (coll. George): n. 2465 B.; from Belvedere to Oysterpond: n. 3054 B.; near Fort Amsterdam: n. 2072.

I also saw Pedilanthus tithymaloides: along roads near Bethlehem; Marigothill to Marigot; Nakedboyhill; near Bellevue; hill between Mont des Accords and Centryhill; near Saline; hill on the northern side of Cul de Sac: Mount Paradis 300—400; Lowlands; lower part of Mount Paradis; Tintamarre; hills on the eastern side of Cul de Sac.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Portorico, Guadeloupe, Martinique, St. Vincent, Barbados, Grenada, Tobago. (Herb. Krug et Urban.).

153. Anacardiaceae.

4545. **Mangifera** Linn.

Mangifera indica Linn. Spec. (1753) 200; Gris. Fl. 176; Duss 187: Millspaugh 504. Mangotree.

St. Eustatius: in a garden in Oranjestad: n. 57 H., 130 G., 3590 B.

Saba: locality unknown: n. 156 L., 196 L., 302 L.

I also saw Mangifera indica: Laddergut; Bottom; Marypoint.

St. Martin: I saw Mangifera indica: Marigothill—Marigot; from Cul de Sac—Marigot; Vallée des Pères; lower part of Milldrumhill; Mount Paradis 300—400 M.: Lowlands.

St. Croix ex Millspaugh.

India orient, Malaya, Mexico, Amer. centr. et merid—sept. Antill. (Engler 1883). Also cultivated.

4546. **Anacardium** Rotböll.

Anacardium occidentale Linn. Spec. (1753.) 383; Gris. Fl. 176; Duss 189; Millspaugh 505. Cashew, Cherry.

St. Eustatius: Slope of the lower part of the Quill near Bengalen: n. 718 B.; locality unknown: n. 45 H., 207 G.

I also saw Anacardium occidentale: on the slope of the Quill on the side of White Wall; top of the Quill; top of Signalhill.

Saba: locality unknown: n. 227 H.

I also saw Anacardium occidentale: Laddergut; near Marypoint.

St. Martin: from Filipsburg to Belvedere: n. 2597 B.; Lowlands: n. 3267 B.

I also saw Anacardium occidentale: along roads from Filipsburg to Nakedboyhill; Nakedboyhill; lower part of Milldrumhill.

St. Croix ex Millspaugh.

In all warmer countries of America. (Engler 1885). Also cultivated.

4552. **Spondias** Linn.

Spondias lutea Linn. Spec. (1753) 613. Yellow plum.

St. Eustatius: Signalhill: n. 125*a* B.; in a garden in Oranjestad: n. 1016 B.

Saba: Bottom: n. 1873*a* B., 1877 B., 2234 B.

Antill., Mexico, Amer. cont. austr., Malay. (Engler 1883). Also cultivated.

Spondias purpurea Linn. Spec. (1753) 613. Red plum, Jamaica plum.

Cultivated. [Antill., Mexico, Peru, Nova Granata.] (Engler 1883).

4590. **Comocladia** Linn.

Comocladia ilicifolia Sw. Prod. Veg. Ind. Occ. (1788) 17; Gris. Fl. 176; Duss 184; Millspaugh 504. Red man, Centepee plant.

St. Eustatius: White Wall: n. 822 B.; Signalhill 150 M.: n. 1041 B., 99; Gilboohil: n. 100; locality unknown: n. 111 H., 332 H.

Saba: Bottom: n. 1852*a* B.; Springbaygut: n. 2096 B.

St. Martin: from Filipsburg to Guanabay: n. 2369 B.; Centryhill: n. 101, 102; near Point Blanche: n. 104; near Guanabay: n. 103.

I also saw Comocladia ilicifolia: along roads near Bethlehem; along roads from Filipsburg to Nakedboyhill; Nakedboyhill 100—200 M.; hill between Mont des Accords and Centryhill; near Saline; from Belvedere to Oysterpond; lower part of Mount Paradis.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Portorico, St. Thomas, St. Domingo, Guadeloupe, Antigua, St. Lucia. (Engler 1885).

158. Celastraceae.

4626. **Maytenus** Molina.

Maytenus elliptica Kr. et Urb. in Duss Fl. Ant. franç. (1897) 145 (excl. syn. Griseb.).

St. Eustatius: Top of the Quill 400 M.: n. 233 B., 344*a* B., 369 B.; Quill: n. 412*a* B.; slope of the Quill near Bengalen: n. 744*a* B.; near Signalhill: n. 952*a* B.

St. Martin: Top of Nakedboyhill: n. 2713 B.; Milldrumhill: n. 3152 B., 3182*a* B.

St. Croix. (Symb.).

St. Domingo, Portorico, St. Thomas, St. Jan, Montserrat, Guadeloupe, Marie Galante, Martinique, St. Vincent, Becquia. (Symb.).

4648. **Gyminda** Sarg.

Gyminda latifolia Urb. in Symbolae Antillanae V (1904) 80.

Myginda latifolia Sw. Prodr. (1788) 39; Gris. Fl. 146; Duss 148.

Myginda pallens Sarg. Forest Trees N. Amer. IX 38; Duss 147 (non Sm.); (Symb.).

Rhacoma latifolia Loesener in Engl.-Prantl. Nat. Pflanzenfam. III. 5 (1892) 217.

St. Eustatius: Top of the Quill 400 M.: n. 375*a* B., 393 B.

St. Martin: Colebay (coll. George): n. 2512 B.; near Simonsbay: n. 3035*a* B.

Key ins., Antill., Mexico. (Symb.).

Rhacoma Linn.

cf. 4649. Myginda Jacq. syn.

Rhacoma crossopetalum Linn. Syst. X. ed. II (1759) 896.

Myginda rhacoma Sw. Prodr. I (1788) 39; Gris. Fl. 146; Duss 147.

Myginda pallens Smith in Rees Cycl. XXV (1813) n. 4; Gris. Fl. 146; Millspaugh 505.

St. Eustatius: Signalhill 900 M.: n. 129 B.; deserted plantations near Tumbledowndickbay: n. 144 B.; White Wall: n. 816 B.; gut near Fort de Wind 50 M.: n. 841 B.; seashore near White Wall: n. 860 B.; Signalhill 50 M.: n. 1028 B.; Berg Amsterdam: n. 115; top Pongo: n. 113, 114; Pongo—Signalhill: n. 112; White Wall: n. 111; Crookwell: n. 110; Little Mountain—Boven: n. 116; Sugarloaf: n. 117.

Saba: lower part of the Bottom Mountain 250 M.: n. 1391 B.; gut between Masticgut and Hellsgate 300—400 M.: n. 2029 B.; Paris: n. 211.

St. Martin; near Mulletpond: n. 2751 B., 2753 B.; near Bethlehem: n. 2600*a* B.; Tintamarre: n. 3397 B., 3400 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florid. austral., Key, Baham., Antill. (Symb.).

4653. **Schaefferia** Jacq.

Schaefferia frutescens Jacq. Enum. (1760) 33; Gris. Fl. 146; Duss 148; Millspaugh 505. Boxwood.

St. Eustatius: deserted plantations near Tumbledowndickbay: n. 147 B.; from Little Mountain to Venusbay: n. 962 B.; Boven: n. 215.

Saba: along the Forthgut 150—200 M.: n. 1636 B.

St. Martin: from Filipsburg to Cul de Sac: n. 2610 B.; Marigothill—Marigot 0—200 M.: n. 2647 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2859 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2964 B.; Colebayhill: n. 210; Centryhill: n. 1, 2, 3; French frontier: n. 5; locality unknown: n. 4, 7.

St. Croix ex Millspaugh.

Florid. austral., Key, Baham., Mexico, Nova Granata, Antill. (Symb.).

165. Sapindaceae.

4726. **Cardiospermum** Linn.

Cardiospermum halicacabum Linn. Spec. (1753) 366; Gris. Fl. 122; Duss 118; Millspaugh 505. Sprainbushwine.

St. Eustatius: Bengalen: n. 618 B.; along roads in Oranjestad: n. 1106 B.; near the seashore: n. 146; slope of the Quill: n. 148; Cultuurvlakte: n. 147; locality unknown: n. 154 G., 294 H.

Saba: St. Giles: n. 1868 B.; Windwardside: n. 2307 B.

St Martin: from Filipsburg to Guanabay: n. 2421 B.; Point Blanche (coll. George): n. 2496 B.; Cul de Sac—Marigothill 0—200 M.: n. 2632 B.; along roads from Marigot to Filipsburg: n. 3112 B.; Mount Paradis 200—300 M.: n. 3316 B; Marigotroad: n. 150, 151, 152.

St. Croix ex Millspaugh.

Trop. and warmer countries of both hemisph. (E. a. P.).

4734. **Allophylus** Linn.

Allophylus occidentalis Radlk. in Sitzungsb. phys. math. Cl. Bayer. Acad. Wiss. XX (1890) 230.

Schmidelia occidentalis Sw. Fl. Ind. Occ. II (1800) 665; Gris. Fl. 126; Duss 122; Millspaugh 506.

St. Eustatius: Top of the Quill 400 M.: n. 213 B.; inner slope of the Quill 350 M.: n. 455 B., 1215 B., 329 H.; locality unknown: n. 50, 51, 52.

Saba: Boobyhill 300 M.: n. 1591 B.; gut between Hellsgate and Masticgut 300 M.: n. 2057 B.

St. Croix ex Millspaugh.

Antill., Cuba to Minaes Geraes. (Gris. Fl.).

4760. **Melicocca** Linn.

Melicocca bijuga Linn. Spec. (1762) 495; Gris. Fl. 127; Duss 123; Millspaugh 505. Kinnuptree.

St. Eustatius: Signalhill 200 M.: n. 136 B., 165 B.; Bengalen: n. 633 B.; lower part of the hills near Concordia: n. 978 B.; along the slope of the lower part of Signalhill: n. 143; Oranjestad: n. 144, 86 H., 204 H.

Saba: Bottom: n. 1872 B.; locality unknown: n. 1*a* L.

I also saw Melicocca bijuga in Laddergut.

St. Martin: I saw Melicocca bijuga: along roads from Filipsburg to Nakedboyhill; near Bellevue.

St. Croix ex Millspaugh.

Trinidad, Jamaica, Guiana, Nova Granata. (Gris. Fl.).

Also cultivated.

4831. **Dodonaea** Linn.

Dodonaea viscosa Linn. Mant. (1767) 228; Gris. Fl. 127; Duss 123; Millspaugh 506.

St. Eustatius: Slope of the Quill above White Wall 350 M.: n. 1 B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 766 B.; White Wall: n. 804 B.; gut near Fort de Wind: n. 828 B., 835*a* B.; slope of the Quill on the side of White Wall 200 M.: n. 1199 B.; near Sugarloaf: n. 154, 155, 162; near White Wall: n. 156, 157, 163; locality unknown: n. 3635 B.

St. Martin: at the seashore near Simsonsbayvillage: n. 3031 B.; Colebay (coll. George): n. 2504 B.; Simsonsbay: n. 159, 161.

St. Croix ex Millspaugh.

In almost all warm countries. (Hemsley 1884).

4833. **Hypelate** Swartz.

Hypelate trifoliata Sw. Prod. Veg. Ind. Occ. (1788) 61; Gris. Fl. 127.

St. Martin: near Simsonsbaylagoon: n. 2738*a* B.

Anguilla Boldingh.

Baham., Antill. (Herb. Krug et Urban).

168. Balsaminaceae.

4856. **Impatiens** Linn.

Impatiens Balsamina Linn. Spec. (1753) 938.
Cultivated. [India orient?]. (Ind. Kew.).

169. Rhamnaceae.

4861. **Zizyphus** Adans.

Zizyphus Jujuba Lam. Encycl. III (1789) 318; Duss 94.
St. Martin: from Filipsburg to Guanabay: n. 2393*a* B.; near Filipsburg: n. 2337*a* B.
India. orient., Malay. (Ind. Kew.).

4875*a*. **Krugiodendron** Urb.

Krugiodendron ferreum Urb. Symb. Ant. III (1902) 314; Millspaugh 506.
Condalia ferrea Gris. Flor. W. I. (1859) 100; Duss 92. Ironberry.
St. Eustatius: from Little Mountain to Venusbay: n. 963 B.; Boven: n. 192; locality unknown: n. 337 G.
St. Martin: near Mulletpond: n. 2773 B.; Mount Paradis: n. 3313 B.; French frontier: n. 191.
St. Croix ex Millspaugh.
Florida, Key Ins., Baham., Antill. (Symb.).

4882. **Colubrina** L. Cl. Rich.

Colubrina ferruginosa Brong. in Ann. Sc. Nat. Sér. I X (1827) 386. t. 15 f. 3; Gris. Fl. 100; Millspaugh 506.
Saba: St. Giles: n. 1866*a* B.
Florida, Antill. (E. a. P.).

4902. **Gouania** Jacq.

Gouania domingensis Linn. Spec. (1763) 1663; Gris. Fl. 101; Duss 93; Millspaugh 506. White root.
St. Eustatius: from Tumbledowndickbay to Signalhill; n. 168 B.; near Maryglory 150 M.: n. 1136 B.
Saba: lower part of the Bottom Mountain 300 M.: n. 1444 B.; Hellsgate: n. 189.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2636 B.; Marigotroad near Marigot: n. 2811 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2954 B.; lower part of Colebayhill: n. 153, 190.

St. Croix ex Millspaugh.

Amer. trop. (E. a. P.).

170. Vitaceae.

4918. **Cissus** Linn.

Cissus obovata Vahl Symb. Bot. III (1764) 19; Gris. Fl. 102.

St. Martin: Top of Mount Paradis: n. 3236 B., 3350 B.

St. Croix. (Planchon 1883).

Portorico. (Planchon 1883).

Cissus sicyoides Linn. Syst. ed. X. (1759). 897; Gris. Fl. 102; Duss 95; Millspaugh 506. Pudding withe.

Vitis sicyoides Miq. in Ann. Mus. Bot. Lugd. Bat. I. (1863) 83.

St. Eustatius: Seashore near Oranjestad: n. 44 B.; slope of the hills near Tumbledowndickbay: n. 153 B.; top of the Quill 880 M.: n. 284 B.; slope of the Quill near Bengalen 100 M.: n. 668 B., 709 B., 727 B.; Cultuurvlakte: n. 5; seashore: n. 6, 7; locality unknown: n. 129 H., 155 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1344 B.; between Bottom and Marypoint 190—200 M.: n. 1506 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2051 B., 2076 B.; Springbaygut: n. 2107 B.; Bottom: n. 14, 15; locality unknown: n. 104 L.

I also saw Cissus sicyoides in Laddergut.

St. Martin: from Filipsburg to Guanabay: n. 2384 B.; along the saltpond near Filipsburg: n. 2443 B.; from Filipsburg to Belvedere: n. 2589 B.; gut from Bethlehem to Cul de Sac: n. 3434 B.; hills on the eastern side of Cul de Sac: n. 3437 B.; Centryhill: n. 17; Cul de Sac: n. 16.

I also saw Cissus sicyoides: in Marigothill—Marigot; Nakedboyhill; in pastureground near Belvedere; hill between Mont des Accords and Centryhill; hill on the northern side of Cul de Sac; from Belvedere to Oysterpond; Mount of Paradis 300—400 M.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Americ. trop. (Planchon 1887).

174. Tiliaceae.

4953. **Corchorus** Linn.

Corchorus acutangulus Linn. Encyc. (1786) II 104; Gris. Fl. 97; Millspaugh 507.

St. Eustatius: Bengalen: n. 607 B.; Fort de Wind: n. 803 B.

St. Croix ex Millspaugh.

In all tropical countries (E. a. P.).

Corchorus hirsutus Linn. Spec. (1753) 530; Gris. Fl. 97; Duss 507.

St. Eustatius: Slope of the Quill near Bengalen: n. 656*a* B.; from Little Mountains to Venusbay: n. 994 B.; Signalhill 200 M.: n. 1044 B.; in a garden in Oranjestad: n. 1273 B.

St. Martin: (coll. George:) n. 2495*a* B.; near Mulletpond: n. 2762 B.; Mount Paradis 300—400 M.: n. 3245 B.; Fort Amsterdam: n. 252; French-frontier: n. 225.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Aruba, Bonaire. (Herb. Krug et Urban).

Corchorus olitorius Linn. Spec. (1758) 529; Gris. Fl. 97.

St. Eustatius: locality unknown: n. 269 G.

In all tropical countries. (E. a. P.).

Corchorus siliquosus Linn. Spec. (1753) 529; Gris. Fl. 97; Duss 89; Millspaugh 507.

St. Martin: Top of the hill on the northern side of Cul de Sac: n. 3005 B.; Marigotroad: n. 248.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Florida to Texas, Panama, Nova Granata. (Gris. Fl.).

4975. **Triumfetta** Linn.

Triumfetta rhomboidea Jacq. Enum. Pl. Carib. (1760) 22; Gris. Fl. 96; Millspaugh 507. Wild maho.

St. Eustatius: locality unknown: n. 185 H., 210.; slope of the Quill: n. 247.

Saba: Ladder: n. 246.

St. Croix ex Millspaugh.

In both hemisph. (E. a. P.).

Triumfetta semitriloba Jacq. Enum. Pl. Carib. (1760) 22; Gris. Fl. 96; Duss 89; Millspaugh 506.

St. Eustatius: Cliff near Oranjestad: n. 56 B.; top of the Quill 400 M.: n. 198 B.; slope of the Quill near Bengalen 50—200 M.:

n. 645 B.; 711 B.; Cultuurvlakte: n. 155; slope of the Quill: n. 229, 230, 231, 232; Quill: n. 243, 245; locality unknown: n. 244.

Saba: lower part of the Bottom Mountain 250 M.: n. 1398 B., 1415 B.: Windwardside—Hellsgate: n. 1663 B.; Mountain 600—800 M.: n. 1792 B.: gut between Hellsgate and Masticgut 300—400 M.: n. 2062 B.; Mountain near Windwardside 600 M.: n. 2162 B.; Peperpot: n. 236; Gainbygut: 235.

St. Martin: Cul de Sac—Marigothill 0—200 M.: n. 2635 B.; near Bethlehem: n. 2665 B.; Nakedboyhill 50—200 M.: n. 2705 B.; Mount Paradis 300—400 M.: n. 3215 B., 3243 B.; Centryhill: n. 234; Marigotroad: n. 233.

St. Croix ex Millspaugh.

In both hemisph. (E. a. P.).

175. Malvaceae.

4983. Abutilon Adans.

Abutilon crispum Sweet. Hort. Brit. ed. I (1827) 53; Gris. Fl. 79; Duss 68.

St. Eustatius: English Quarter: n. 606, 616, 626, 636.

St. Vincent, New Mexico, Texas, Cuba and Mexico to Venezuela, East Indies. (Gris. Fl.).

Abutilon indicum Sweet. Hort. Brit. ed. I. (1827) 54; Gris. Fl. 78; Duss 67; Millspaugh 507.

St. Eustatius: Bengalen: n. 627 B., 1188 B.; along roads in Oranjestad: n. 932 B.; Concordia: n. 255; English Quarter: n. 287; locality unknown: n. 201 H.

Saba: locality unknown: n. 75 L.

St. Martin: along roads from Bethlehem to Mont Chambord: n. 2915 B.; Mount Paradis 200—400 M.: n. 3204 B.

I also saw Abutilon indicum: along roads from Filipsburg to Nakedboyhill; hill between Mont des Accords and Centryhill.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Panama, Niger, Nubia to Mozambique, East Indies. (Gris. Fl.).

4991. Althaea Linn.

Althaea officinalis Linn. Spec. (1753) 686.

Cultivated. [Europa orient.] (Ind. Kew.).

4995. Malvastrum A. Gray.

Malvastrum spicatum A. Gray, in Mem. Am. Acad. N. S. IV (1849) 22; Gris. Fl. 72; Duss 62; Millspaugh 508.

St. Eustatius: in a garden in Oranjestad: n. 90 B.; Fort de Wind: n. 799 B.; locality unknown: n. 256 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1304 B.; Hellsgate—Marypoint: n. 2046 B.

St. Martin: from Filipsburg to Guanabay: n. 2346 B.; near Bethlehem: n. 2663 B.

St. Croix ex Millspaugh.

Antill., Texas to Brazil., Cape Verde Islands, East Indies, New Holland. (Gris. Fl.).

Malvastrum tricuspidatum A. Gray Pl. Wright I (1852) 16; Gris. Fl. 72; Duss 63.

Malvastrum coromandelianum Garcke Bonplandia V (1857) 297; Millspaugh 508.

St. Eustatius: Quill: n. 901 B.

St. Croix. (Symb.).

Cosmop. trop. (Ind. Kew.).

4998. **Sida** Linn.

Sida carpinifolia Linn. f. Suppl. (1781) 307; Gris. Fl. 73; Duss 63; Millspaugh 508.

Sida acuta Burm. f. Fl. Ind. (1768) 147. Soapbush.

St. Eustatius: in a garden in Oranjestad: n. 91 B., 568 B.; Bengalen: n. 620 B.; Fairplay: n. 1505; Cultuurvlakte: n. 1502; slope of the Quill: n. 1506; locality unknown: n. 1507, 15 H., 16 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1340 B.; between Bottom and Marypoint 100—200 M.: n. 1503 B.; top of the Cliff near the seaside of Boobyhill: n. 1601 B.; Windwardside: n. 1901 B.; Laddergut 0—200 M.: n. 2018 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2028 B.; locality unknown: 263 L.

St. Martin: from Guanabay to Filipsburg: n. 2439 B.; lower part of Milldrumhill: n. 3170 B.

I also saw Sida carpinifolia on the hill between Mont des Accords and Centryhill; between Mount Vernon and Saline; near Grande Case; Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Antill., Florida, Bermud., Cuba and Guatemale to Nova Granata and Brazil., trop. Afr., Canary Islands, East Indies. (Gris. Fl.).

Sida ciliaris Linn. Syst. Ed. X (1759) 1145; Gris. Fl. 73; Duss 64; Millspaugh 509.

St. Eustatius: on the top of the Cliff between Oranjestad and Fort de Wind: n. 756 B.; near Maryglory 150 M.: n. 1153 B.; near Boven 200 M.: n. 1245 B.

St. Martin: from Filipsburg to Belvedere: n. 2562 B.; between Mount Vernon and Orientbay: n. 2938 B.; lower part of Colebayhill: n. 470 A.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Venezuela. (Gris. Fl.).

Sida cordifolia Linn. Spec. (1753) 684; Gris. Fl. 76; Duss 67; Millspaugh 509. Mash mellow.

St. Eustatius: Bengalen: n. 623 B.; Cultuurvlakte: n. 511, 524; English Quarter: n. 510; locality unknown: n. 3582 B., 182 G.

Saba: Windwardside—Hellsgate: n. 1662 B.; Hellsgate: n. 1695 B.

St. Martin: Prince quarter (coll. George): n. 2462 B.; from Filipsburg to Belvedere: n. 2559 B.: Nakedboyhill 50—200 M.: n. 2679 B.; from Belvedere to Oysterpond: n. 3048 B.; along roads from Grande Case to Marigot: n. 3094 B.; locality unknown: n. 3597 B.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Peru and Brazil., Cape Verde Islands, Niger, Nubia, Cape, East Indies, Canton. (Gris. Fl.).

Sida glomerata Cav. Diss. I (1785) 18 t. 2 f. 6.; Gris. Fl. 73; Duss 64.

St. Eustatius: locality unknown: n. 275 H.

Bermud., Antill., Mexico. (Hemsley 1884).

Sida rhombifolia Linn. Spec. (1753) 684; Gris. Fl. 74; Duss 75; Millspaugh 509.

St. Martin: from Flat Point to Windwardside: n. 2143 B.; Mount Paradis: n. 3203 B.

Trop. countries of both hemisph. (Ind. Kew.).

Sida spinosa Linn. Spec. (1753) 683; Gris. Fl. 74; Duss 64; Millspaugh 509.

St. Eustatius: Bengalen: n. 617 B.; hill near Concordia 100 M.: n. 945 B.; Cultuurvlakte: n. 131, 205.

St. Martin: Cul de Sac: n. 2616 B.; near Bethlehem: n. 2664 B.

St. Croix ex Millspaugh.

Afr., Asia, America. (E. a. P.).

Sida supina L'Hérit. Stirp. Nov. (1784) 109bis, t. 52; Gris. Fl. 75; Millspaugh 509.

St. Eustatius: along roads in Oranjestad: n. 918 B.; near Maryglory 150 M.: n. 1155 B.

Saba: lower part of the Bottom Mountain 250 M.: n. 1396 B.; between Bottom and Marypoint 100—200 M.: n. 1457 B.; Ladder-gut 200 M.: n. 2005 B.; Peperpot: n. 658.

St. Martin: near Fort Willem: n. 2542 B., 2793 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2948 B.; along roads in Cul de Sac: n. 2967 B.; lower part of the Mill-drumhill: n. 3168 B.

St. Croix ex Millspaugh.

Antill., Haiti and Mexico to Venezuela and Lima, Galapagos Islands. (Gris. Fl.).

5006. **Urena** Linn.

Urena lobata Linn. Spec. (1753) 692; Gris. Fl. 81; Duss 70.

Urena americana Linn. Pl. Surin. II (1775); Millspaugh 509.

Saba: between Bottom and Marypoint 300 M.: n. 1559 B., 1472 B.; Mountain 800 M.: n. 1799 B., 1803 B., 19, 31.

St. Croix ex Millspaugh.

In all tropical countries. (E. a. P.).

5007. **Pavonia** Cav.

Pavonia spinifex Cav. Diss. III (1787) 133; Gris. Fl. 82; Duss 72; Millspaugh 508. Ginger bush.

Saba: lower part of the Bottom Mountain 250 M.: n. 1401 B.; Windwardside: n. 1592 B., Crespeen—Rendez-vous 400 M.: n. 29; Middle island: n. 30.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2650 B.; lower part of Mount Paradis: n. 3188 B., 3302 B.

St. Croix ex Millspaugh.

Bermud., Antill., Amer. merid. (Hemsley 1884).

5013. **Hibiscus** Linn.

Hibiscus esculentus Linn. Spec. (1753) 696.

Cultivated. [In all trop. countries]. (Ind. Kew.).

Hibiscus radiatus Cav. Diss. III (1787) 150 t. 54 f. 2. Hawthorn.

Cultivated. [Asia and Austral. trop.]. (Ind. Kew.).

Hibiscus Rosa-sinensis Linn. Spec. (1753) 694. Hibisc.

Cultivated. [Trop. countries of the Old world]. (Ind. Kew.).

Hibiscus Sabdariffa Linn. Spec. (1753) 695.

Cultivated. [Trop. countries of the Old world]. (Ind. Kew.).

Hibiscus schizopetalus Hook. f. Bot. Mag. (1880) t. 6524. Basket hibisc.

Cultivated. [Afr. trop.]. (Ind. Kew.).

Hibiscus tiliaceus Linn. Spec. (1753) 694.

Paritium tiliaceum St. Hill Fl. Bras. Mer. I (1827) 256; Gris. Fl. 86; Duss 79; Millspaugh 508.

St. Eustatius: at the seashore near Concordiabay: n. 1089 B.

St. Martin: Mount Paradis 300—400 M.: n. 3326 B.

St. Croix ex Millspaugh.

All tropical countries. (E. a. P.).

5014. **Abelmoschus** Médik.

Abelmoschus moschatus Médik. Malv. (1787?) 46.

Cultivated. [Trop. countries of the Old world]. (Ind. Kew.).

5018. **Thespesia** Soland.

Thespesia populnea Soland. ex Correa in Ann. Mus. Par. IX (1807) 290; Gris. Fl. 87; Duss 79; Millspaugh 509.

St. Eustatius: Seashore near Oranjestad: n. 30 B.; seashore near Tumbledowndickbay: n. 154 B.; slope of the Quill 50 M.: n. 35.

Saba: Bottom: n. 2246 B., 36; locality unknown: n. 233 L.

St. Martin: Cul de Sac—Marigothill 0—200 M.: n. 2625*a* B.

St. Croix ex Millspaugh.

Antill., East Indies, North coast of Austral., New South Wales, Senegambia. (Gris. Fl.).

5020. **Gossypium** Linn.

Gossypium barbadense Linn. Spec. (1753). 693. Creole cotton.

Cultivated. [Amerika]. (E. a. P.).

177. Bombacaceae.

5023. **Adansonia** Linn.

Adansonia digitata Linn. Spec. (1753); 1190. Guinea tamarind.

[Africa]. (E. a. P.).

5026. **Ceiba** Médik.

Ceiba pentandra Gärtn. Fruct. II (1791). 244 t. 133.

Eriodendron anfractuosum DC. Prod. I (1824) 479; Gris. Fl. 88; Duss 80; Millspaugh 510. Silkcottontree.

St. Eustatius: Top of the Quill 400 M.: n. 224 B.; in a garden in Oranjestad: n. 321 H.

I also saw Ceiba pentandra: at the seashore near Oranjestad: Bottom of the Quill.

St. Martin: Cul de Sac: n. 2619 B.

I also saw Ceiba pentandra: near Grande Case; Vallée des Pères.

St. Croix ex Millspaugh.

Mexico, Antill., Guiana, Afr., Malay. (E. a. P.).

Also cultivated.

5033. **Quararibea** Aubl.

Quararibea turbinata Poir. Encycl. Suppl. IV. 636.

Myrodia turbinata Sw. Prod. Veg. Ind. Occ. (1788) 102; Gris. Fl. 88; Duss 82; Millspaugh 510. Millerwood.

St. Eustatius: Bottom of the Quill: n. 424*a* B., 896*a* B., 113 H., 217 G., 118, 119, 120, 121, 122.

St. Croix ex Millspaugh.

Brazil. (Ind. Kew.).

178. Sterculiaceae.

5057. **Melochia** Linn.

Melochia nodiflora Sw. Prod. Veg. Ind. Occ. (1788) 97; Gris. Fl. 94; Duss 87; Millspaugh 510.

St. Martin: Top of the hill on the northern side of Cul de Sac 200—300 M.: n. 2989 B.; Tintamarre: n. 3392 B.

St. Croix ex Millspaugh.

Antill., Mexico, Panama. (Gris. Fl.).

Melochia pyramidata Linn. Spec. (1753) 674; Gris. Fl. 93; Duss 86; Millspaugh 510.

St. Eustatius: along roads in Oranjestad: n. 1076 B.; slope of the Quill: n. 198, 199; Cultuurvlakte: n. 197, 200; in a garden in Oranjestad: n. 200, 39 G.

St. Croix ex Millspaugh.

Baham., Antill., Mexico, Texas, Venezuela, Guayaquil, Brazil. (Gris. Fl.).

Melochia tomentosa Linn. Syst. ed. X (1759) 1140; Gris. Fl. 93; Duss 86; Millspaugh 510. Black toarch.

St. Eustatius: Slope of the lower part of Signalhill: n. 102 B.; Signalhill 200 M.: n. 127 B.; along roads in Oranjestad: n. 924 B.; along roads near Concordiabay: n. 975 B.; Cultuurvlakte: n. 204; along roads: n. 232 H.

Saba: I saw Melochia tomentosa on Crispeenhill.

St. Martin: from Filipsburg to Guanabay: n. 2354 B.; Prince quarter (coll. George): n. 2472*a* B.; Fort Willem 0—50 M.: 2532 B., 2795 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2945 B.; Colebayhill: n. 205; Prince quarter: n. 116.

I also saw Melochia tomentosa: along roads from Nakedboyhill to Filipsburg; Nakedboyhill; from Belvedere to Oysterpond; Tintamarre.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Venezuela and Brazil. (Gris. Fl.).

5059. **Waltheria** Linn.

Waltheria americana Linn. Spec. (1753) 673; Gris. Fl. 95; Duss 87.

Waltheria indica Linn. Spec. (1753) 673; Millspaugh 511. Mash mellow.

St. Eustatius: Seashore near Oranjestad: n. 37 B.; top of the Quill 400 M.: n. 503 B.; in a garden in Oranjestad: n. 509 B.; Bengalen: n. 619 B.; slope of the lower part of the Quill near Bengalen: n. 720 B.; on the Cliff between Oranjestad and Fort de Wind: n. 757 B., 763*a* B.; Pongohill: n. 43; slope of the Quill: n. 44, 45, 46; Cultuurvlakte: n. 42, 47; along roads in Oranjestad: n. 181 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1528 B.; Windwardside—Hellsgate: n. 1685 B.

St. Martin: near Fort Willem: n. 2794 B.; in an orchard near Bellevue: n. 2844 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

In tropical and subtropical countries. (Hemsley 1884).

5063. **Ayenia** Loefl.

Ayenia pusilla Linn. Syst. ed. X (1759) 1247; Gris. Fl. 92; Millspaugh 510.

St. Eustatius: Top of the Cliff between Gallowsbay and White Wall: n. 761 B.

St. Martin: from Filipsburg to Point Blanche: n. 3400*a* B.

St. Croix ex Millspaugh.

Antill., Peru. (Ind. Kew.).

5068. **Theobroma** Linn.

Theobroma Cacao Linn. Spec. (1753) 782; Gris. Fl. 91; Duss 85; Millspaugh 510. Cocoa.

St. Eustatius: Bottom of the Quill 350 M.: n. 446 B., 1217 B.; Quill: n. 123, 124, 125, 102 H., 214 G., 221 G.

Saba: Windwardside: n. 1937 B.

St. Croix ex Millspaugh.

Amer. cent. and merid., Curaçao(?) (E. a. P.).

5081. **Helicteres** Linn.

Helicteres jamaicensis Lam. Encyc. IV 87; Gris. Fl. 89; Millspaugh 510.

Helicteres Isora Linn. Spec. (1753) 963.

St. Martin: Prince quarter: n. 501.

St. Croix ex Millspaugh.

Antill., Asia et Austral. trop. (Ind. Kew.).

182. Ochnaceae.

5126. **Sauvagesia** Linn.

Sauvagesia erecta Linn. Spec. (1753) 203; Gris. Fl. 112; Duss 108.

Saba: Mountain 800 M.: n. 1821 B., 2209 B., 134; gut between Hellsgate and Masticgut 300—400 M.: n. 2025 B.

In all tropical countries. (E. a. P.).

184. Marcgraviaceae.

5137. **Marcgravia** Linn.

Marcgravia umbellata Linn. Spec. (1753) 503; Gris. Fl. 110; Duss 106.

Saba: Mountain near Windwardside 600 M.: n. 2159 B., 2160 B.; Mountain 800 M.: n. 2207 B., 58, 59; Mountain near Hellsgate 500 M.: n. 2275 B., 2276 B.

Antill., Guiana and Columbia. (Urban 1896.).

186. Theaceae.

5135. **Ternstroemia** Mutis ex Linn. f.

Ternstroemia peduncularis DC. in Mem. Soc. Phys. Genèv. I (1822) 409.

Ternstroemia elliptica Sw. Prod. Veg. Ind. Occ. (1788) 81; Gris. Fl. 103; Duss 96; Millspaugh 511.

St. Eustatius: Top of the Quill 400 M.: n. 5 B., 228 B., 248 B., 264 B., 323 B., 359 B., 401 B., 504 B., 222, 223, 224, 225, 227, 228: inner slope of the Quill 350 M.: n. 1228 B.; locality unknown: n. 130, 226.

St. Martin: Lowlands: n. 3271 B.

St. Croix ex Millspaugh.

Antill., Mexico, Panama. (Gris. Fl.).

Freziera Sw.

cf. 5157. Eurya Thunb. subg. II.

Freziera undulata Willd. Sp. Plant. II. (1799) 1179; Gris. Fl. 104; Duss 97.

Saba: Mountain 800 M.: n. 2211 B., 64, 65.

St. Kitts, Montserrat, Guadeloupe, Dominica, Martinique, St. Vincent, St. Lucia, Grenada, Trinidad. (Urban 1896).

187. Guttiferae.

5164. **Marila** Swartz.

Marila racemosa Sw. Prod. Veg. Ind. Occ. (1788) 84; Gris. Fl. 111; Duss 107.

Saba: Mountain 800 M.: n. 1829 B.

Guadeloupe, Martinique, Dominica, St. Vincent. (Herb. Krug et Urban).

5176. **Mammea** Linn.

Mammea americana Linn. Spec. (1753) 512; Gris. Fl. 108; Duss 102; Millspaugh 511. Mammie.

St. Eustatius: along the lower part of Signalhill: n. 120 B.; inner slope of the Quill 350 M.: n. 461 B.; slope of the Quill near Bengalen 150—200 M.: n. 651 B.; Quill: n. 9; locality unknown: n. 70 H., 184 G.

Saba: Boobyhill 300 M.: n. 1619 B.; locality unknown: n. 114 L.

I also saw Mammea americana: Hellsgate.

St. Martin: I saw Mammea americana: Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Antill., Guiana, Nova Granata; in warmer parts of Amer. Afr. and Asia cultivated. (Vesque 1893).

Also cultivated.

5181. **Clusia** Linn.

Clusia alba Jacq. Enum. Pl. Carib. (1760) 34; Gris. Fl. 107; Millspaugh 511. Wild mammie.

St. Eustatius: Top of the Quill 400 M.: n. 193 B., 376 B., 8, 10, 100 H., 185 G.

Saba: between Bottom and Marypoint 350 M.: n. 1489 B.; Hellsgate: n. 1705 B.; Mountain near Hellsgate 600 M.: n. 2288 B.; locality unknown: n. 357 L.

I also saw Clusia alba: on Gates Hill; in Gut between Hellsgate and Masticgut.

St. Croix ex Millspaugh.

St. Kitts, Martinique, Dominica, Guadeloupe. (Vesque 1893).

Clusia rosea Jacq. Enum. Pl. Carib. (1760) 34; Gris. Fl. 107; Duss 99; Millspaugh 511.

St. Martin: Nakedboyhill 200—265 M.: n. 2718 B.; Centryhill: n. 12.

St. Croix ex Millspaugh.

Baham., Antill., Venezuela, Panama, Carolina. (Vesque 1893).

Clusia spec. nov. without flowers and fruits.

Saba: Greathill: n. 11.

194. Bixaceae.

5249. **Bixa** Linn.

Bixa Orellana Linn. Spec. (1753) 512; Gris. Fl. 20; Duss 14; Millspaugh 511. Roucou.

St. Eustatius: in a garden in Oranjestad: n. 533 B., 140 H., 231 G.

Saba: lower part of the Bottom Mountain 300 M.: n. 1426 B.; Bottom: n. 1850 B., 2241 B.; locality unknown: n. 245 L., 292 L.

St. Croix ex Millspaugh.

Indig. in Amer. trop. (E. a. P.). Also cultivated.

197. Canellaceae.

5254. **Canella** Swartz.

Canella alba Murr. Syst. ed. XIV (1784) 443; Gris. Fl. 109; Duss 103; Millspaugh 511. Pepper cinnamom.

St. Martin: Colebay (coll. George): n. 2503 B., 2505 B.; shore of the Simsonsbaylagoon near Cul Piquard: n. 2740 B.; near Mulletpond: n. 2769 B.; near Vischvijver: n. 2926 B.: near Simsonsbaylagoon: n. 3038 B.; Milldrumhill 300—400 M.: n. 3126 B.; Lowlands: n. 3282 B.

St. Croix ex Millspaugh.

Florida, Antill. (E. a. P.).

199. Flacourtiaceae.

5307. **Prockia** Linn.

Prockia Crucis Linn. Syst. ed. X (1759) 1074.

Cultivated. [Amer. trop.]. (E. a. P.).

5320. **Xylosma** Forst.

Xylosma buxifolium A. Gray in Mem. Am. Acad. N. S. VIII. (1860) 155.

Myroxylon buxifolium Krug et Urban in Additamenta ad Cognitionem Florae Indiae Occidentalis I (1893) 300; Duss 15. Cockspur.

St. Eustatius: Top of the Quill 450 M.: n. 373 B., 43.

Baham., Antill. (Urban 1893).

5337. **Samyda** Linn.

Samyda serrulata Linn. Spec. (1762) 558; Gris. Fl. 25; Duss 17; Millspaugh 512. Banso, Wild guave.

St. Eustatius: Signalhill 150 M.: n. 1025 B.; near Maryglory 150 M.: n. 1146 B.; slope of the Quill on the side of White Wall 200 M.: n. 1169 B.

St. Martin: from Filipsburg to Guanabay: n. 2352 B., 2372 B., 2390 B.; Prince quarter (coll. George): n. 2425*a* B., 2458 B.; Fort Willem: n. 2532*a* B.; Cul de Sac: n. 2605 B.; Nakedboyhill 50—200 M.: n. 2687 B.; 200—265 M.: n. 2723 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2951 B.; Mount Paradis 200—400 M.: n. 3207 B.; 100—200 M.: n. 3301 B.; 200—300 M.: n. 3305 B.; locality unknown: n. 3614 B.; Centryhill: n. 30, 88; Colebayhill: n. 32; Vineyardhill: n. 31, 33; French frontier: n. 89.

I also saw Samyda serrulata: near Saline; from Belvedere to Oysterpond; along roads near Grande Case; Lowlands.

St. Croix ex Millspaugh.

St. Domingo, Portorico, St. Thomas, Antigua, St. Barthélemy, Trinidad. (Herb. Krug et Urban).

5343. **Casearia** Jacq.

Casearia parvifolia Willd. Sp. Pl. II (1799) 628; Gris. Fl. 23; Duss 16; Crack open.

St. Eustatius: Top of the Quill 400 M.: n. 220 B., 236 B., 299 B.; top of the Quill 500 M.: n. 496 B.; slope of the Quill near Bengalen 150 M.: n. 677 B., 682 B.; slope of the Quill near Glassbottle: n. 867 B.; Bottom of the Quill 300 M.: n. 892 B.; top of the Quill: n. 160, 166; locality unknown: n. 196 G.

I also saw Casearia parvifolia: slope of the Quill on the side of White Wall.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1345 B.; Greathill 2—400 M.: n. 163; Paris: n. 161, 162; Gainbygut: n. 164; Cowpasture: n. 165; locality unknown: n. 327 L.

I also saw Casearia parvifolia: Forthbaygut; gut between Hellsgate and Masticgut; Springbaygut.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2638 B., 2646 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2894 B.; Mount Paradis 200—400 M.: n. 3310 B.; Centryhill: n. 29; John Ednyhill: n. 28; French frontier: n. 27.

I also saw Casearia parvifolia: on the hills on the northern side of Cul de Sac; from Belvedere to Oysterpond.

St. Croix ex Millspaugh.

Antill., Guiana, Pernambuco. (Gris. Fl.).

Casearia sylvestris Sw. Fl. Ind. Occ. II. (1800) 752; Gris. Fl. 23; Millspaugh 512.

St. Martin: Hill on the northern side of Cul de Sac 0—100 M.: n. 3005*a* B.; 200—300 M.: n. 3011 B.; Mount Paradis 300—400 M.: n. 3201 B., 3241 B.

St. Croix ex Millspaugh.

In tropical America. (E. a. P.).

201. Turneraceae.

5357. **Piriqueta** Aubl.

Piriqueta villosa Aubl. Pl. Gui. I (1775) 298 t. 117.

Piriqueta cistoides G. F. W. Mey ex Steud. Nom. ed. II (1841) 344; Gris. Fl. 298; Duss 314.

St. Eustatius: along roads near English Quarter: n. 997 B., 998*a* B.; slope of the Quill on the side of White Wall 200 M.: n. 1185 B.; slope of the Quill: n. 237, 238; locality unknown: n. 236.

Antill., Cuba and Panama to Brazil. (Gris. Fl.).

5360. **Turnera** Linn.

Turnera ulmifolia Linn. Spec. (1753) 271; Gris. Fl. 296; Millspaugh 512.

St. Eustatius: White Wall: n. 808 B.; gut near Fort de Wind: n. 835 B.; near Boven 200 M.: n. 1237 B.; White Wall: n. 240; Greatgut: n. 241.

Saba: Flat Point: n. 2134 B.

St. Martin: between Mount Vernon and Orientbay: n. 2925 B.; Tintamarre: n. 3403 B.

St. Croix ex Millspaugh.

From Mexico and the Antill. to Argentinia. (E. a. P.).

203. Passifloraceae.

5372. **Passiflora** Linn.

Passiflora foetida Linn. Spec. (1753) 959; Gris. Fl. 294; Duss 313; Millspaugh 512.

St. Eustatius: Fairplay: n. 2305; seashore: n. 1974, 2331; road near Sugarloaf: n. 2397.

Saba: Gut near Marypoint: n. 2048 B.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

Passiflora laurifolia Linn. Spec. (1753) 956; Gris. Fl. 293; Duss 312; Millspaugh 512. Bell apple.

St. Eustatius: Top of the Quill 400 M.: n. 249 B., 290 B.; in a garden in Oranjestad: n. 526 B.; slope of the Quill near Bengalen 250 M.: n. 701 B.; Cultuurvlakte: n. 1439; slope of the Quill: n. 1426; Boven: n. 85; locality unknown: n. 1429, 1442, 1443, 24 G., 79 H., 144 G.

Saba: Bottom: n. 2272 B.; Jenkygut—Hellsgate: n. 87; locality unknown: n. 2 L., 170 L.

St. Martin: Mount Paradis 300—400 M.: n. 3333 B.

St. Croix ex Millspaugh.

Antill., Nova Granata, Guiana, Brazil. (Gris. Fl.). Also cultivated.

Passiflora maliformis Linn. Spec. (1753) 956; Gris. Fl. 293; Duss 313.

Saba: Mountain 200 M.: n. 1904; locality unknown: n. 305 L.

Antill., Haiti to Nova Granata (Gris. Fl.).

Passiflora quadrangularis Linn. Syst. ed. X. (1759) 1248. Granadilla.

Cultivated. [Antill., Panama, Peru, Brasil.]. (Gris. Fl.).

Passiflora rubra Linn. Spec. (1753) 956; Gris. Fl. 292; Duss 312; Millspaugh 512. Snakeberry wine.

Saba: between Bottom and Marypoint 300 M.: n. 1488 B., 1494 B.; Crispeen 400 M.: n. 1764 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2024 B.; Mountain 800 M.: n. 2217 B.

St. Martin: lower part of Mount Paradis: n. 3292 B.

St. Croix ex Millspaugh.

Antill., Panama, Venezuela, Nova Granata. (Gris. Fl.).

Passiflora suberosa Linn. Spec. (1753) 958; Gris. Fl. 290; Duss 311; Millspaugh 512.

St. Eustatius: Top of the Quill 400 M.: n. 192 B., 313 B., 342 B.; 500 M.: n. 490 B.; slope of the Quill near Bengalen 200 M.: n. 690 B.; slope of the lower part of the Quill near Bengalen: n. 713 B.; gut near Fort de Wind: 50 M.: n. 837 B.; slope of the Quill: n. 2417; locality unknown: n. 188 H., 271 G.

Saba: Windwardside—Hellsgate: n. 1668 B.; Bottom: n. 2546, 2571; locality unknown: n. 314 L.

St. Martin: Nakedboyhill 200—260 M.: n. 2721 B., 2734 B.; near Mulletpond: n. 2757 B., 2764 B.; in an orchard near Bellevue: n. 2834 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2871 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Panama, Venezuela. (Gris. Fl.).

205. Caricaceae.

5377. **Carica** Linn.

Carica Papaya Linn. Spec. (1753) 1026. Papao.

Cultivated. [Amer. trop.]. (E. a. P.).

208. Begoniaceae.

5397. **Begonia** Linn.

Begonia domingensis DC. in Ann. Sc. Nat. Sér IV. XI (1859) 124 (vel. affin.); Gris. Fl. 304.

St. Eustatius: Top of the Quill 450 M.: n. 382 B., 472 B.; Bengalen: n. 193, 194; Quill: n. 192.

Saba: Mountain 600—800 M.: n. 1787 B., 1809 B., 2212 B., 169, 189, 190, 191; locality unknown: n. 173 L.

Dominica, Haiti. (Gris. Fl.)

210. Cactaceae.

5401. **Cereus** Mill.

Cereus grandiflorus Mill. Gard. Dict. ed. VIII (1768) n. 11; Gris. Fl. 301; Duss 317; Millspaugh 513.

St. Eustatius: Jenkinsbay: n. 1253*a* B.

Saba: Bottom: n. 2242*a* B.

St. Croix ex Millspaugh.

Jamaica, Caraiben, Haiti, Vera Cruz, Mexico, Sonora. (Schumann 1903).

Cereus Peruvianus Mill. Gard. Dict. ed. VIII (1768) n. 4.

St. Eustatius: in a garden in Oranjestad.

St. Martin: near Bethlehem: n. 3438*a* B.

Antill., Mexico, Bras., Guiana. (Schumann 1903).

Cereus triangularis Haworth. Syn. Pl. Succ. (1812) 180; Gris. Fl. 301; Duss 317; Millspaugh 513.

Cereus compressus Mill. Gard. Dict. ed. VIII (1768) n. 10. Slingercactus, Strawberry.

Saba: St. John's: n. 1871*a* B.; Windwardside: n. 1917*a* B.; near Devilshand: n. 2097*a* B.

St. Martin: near Oysterpond: n. 3089*a* B.; Mount Paradis: n. 3322*a* B.

St. Croix ex Millspaugh.

Antill., Florida, Mexico, Rio de Janeiro, Asia. (Schumann 1903).

Cereus spec.

St. Eustatius: n. 141, 153.

Saba: locality unknown: n. 1660*a* B.

5409. **Melocactus** Link et Otto.

Melocactus communis Link et Otto in Verh. Preuss. Ver. Gartenb. III (1827) 417 t. 11; Gris. Fl. 300; Duss 317; Millspaugh 513. Popehead.

St. Eustatius: I saw Melocactus communis: Top of Signalhill; near Tumbledowndickbay; Gilboohill.

Saba: I saw Melocactus communis: near the Sulphurmines.

St. Martin: I saw Melocactus communis: near Filipsburg; near Guanabay; along roads from Filipsburg to Nakedboyhill; top of Nakedboyhill; Lowlands; Green Key.

St. Croix ex Millspaugh.
Antill. (Schumann 1903).

5417. **Opuntia** Mill.

Opuntia Ficus indica Mill. Gard. Dict. ed. VIII (1768) n. 2; Gris. Fl. 302; Sweet prickle.

St. Eustatius: along roads: n. 151 G.

I saw Opuntia Ficus indica: in deserted plantations near Bengalen; roads along the lower part of Signalhill; Signalhill.

Saba: I saw Opuntia Ficus indica: St. Giles; Laddergut.

St. Martin: I saw Opuntia Ficus indica; near Filipsburg; Nakedboyhill; Fort Willem; Green Key.

Mexico, warmer countries of both hemisph. (Schumann 1903).

Opuntia spinosissima Mill. Gard. Dict. ed. VIII (1768) n. 8; Gris. Fl. 302; Duss 318; Millspauch 513.

St. Eustatius: I saw Opuntia spinosissima: on the top of the Cliff near Signalhill; on the White Wall.

St. Martin: I saw Opuntia spinosissima: Top of Nakedboyhill; Tintamarre.

St. Croix ex Millspaugh.
Ind. Occid. (Schumann 1903). Baham. (Hitchc.)

Opuntia triacantha Haworth. (1812); Gris. Fl. 302. Spanish lady.

St. Eustatius: English Quarter: n. 1004*a* B.; Gilboohill: n. 1126*a* B.; Jenkinsbay: n. 1230*a* B.

I saw Opuntia triacantha: Slope of Signalhill; roads along the lower part of Signalhill; top of the Cliff between Oranjestad and White Wall.

Saba: Paris: n. 1384*a* B.

I also saw Opuntia triacantha: Laddergut.

St. Martin: near Fort Willem: n. 2551*a* B.; near Nakedboyhill: n. 2577*a* B.

I also saw Opuntia triacantha: near Filipsburg; along roads near Bethlehem; one of the islands in Simsonsbaylagoon.

Ind. Occid. (Schumann 1903).

Opuntia Tuna Mill. Gard. Dict. ed. VIII. (1768) n. 3; Gris. Fl. 302; Duss 318; Millspaugh 513. Sour prickle.

St. Eustatius: along roads: n. 152.

Saba: I saw Opuntia Tuna: Giles gut; near the Sulphurmines; Green Island.

St. Martin: I saw Opuntia Tuna: Nakedboyhill; Fort Willem; one of the Islands in Simsonsbaylagoon.

India Occid., California? (Schumann 1903).

5418. **Nopalea** Salm-Dyck.

Nopalea coccinellifera Salm-Dyck Cath. Hort. Dyck. ed. II (1850) 64. Curaçao prickle.

Cultivated. [Mexico]. (Schumann 1903).

5421. **Peireskia** Mill.

Peireskia aculeata Mill. Gard. Dict. ed. VIII (1768).

Cultivated. [warmer countries of Amerika]. (Schumann 1903).

Peireskia bleo DC. Prod. III (1828) 475.

Cultivated. [Nova Granata, Brasilia]. (Schumann 1903).

214. Thymelaeaceae.

5449. **Daphnopsis** Mart. et Zuc.

Daphnopsis caribaea Gris. Flor. W. I., (1860) 278; Duss 297. Maho.

St. Eustatius: Top of the Quill 400 M.: n. 197 B., 251 B., 397 B.; slope of the Quill on the side of White Wall 200 M.: n. 1177 B.; Quill: n. 154.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1359 B.; Greathill 400 M.: n. 1386 B.; seaside of Tentguthill 100 M.: n. 1654 B.; Hellsgate: n. 1699 B.; Springbaygut: n. 2077 B.; Paris 2—400 M.: n. 233, 234, 235.

I saw Daphnopsis caribaea: Gut between Hellsgate and Masticgut; Saddle.

St. Martin: Cul de Sac: n. 2604 B.; Milldrumhill 200—300 M.: n. 3119 B., 3124 B.; Mount Paradis 300—400 M.: n. 3240 B.

I also saw Daphnopsis caribaea: Top of Nakedboyhill; near Saline.

St. Croix. (Symb.).

Portorico, St. Thomas, St. Kitts, Martinique, Guadeloupe, Margareta, Dominica. (Herb. Krug et Urban).

216. Lythraceae.

5493. **Lagerstroemia** Linn.

Lagerstroemia indica Linn. Spec. (1762) 734. Queen of Crib-flower.

Cultivated. [Japan, China, Molukk., Australia]. (Koehne 1903).

5494. **Lawsonia** Linn.

Lawsonia inermis Linn. Spec. (1753) 349. Miminet.

Cultivated. [Africa, Asia, Australia]. (Koehne 1903).

218. Punicaceae.

5501. **Punica** Linn.

Punica Granatum Linn. (1753) 472. Pomegranate tree.
Cultivated. [Balkan and Himalaya]. (E. a. P.).

220. Rhizophoraceae.

5523. **Rhizophora** Linn.

Rhizophora Mangle Linn. Spec. (1753) 443; Gris. Fl. 274; Duss 292; Millspaugh 514.

St. Martin: near Colebay (coll. George): n. 2498*a* B.; from Filipsburg to Simsonsbay: n. 3027 B.

I saw Rhizophora Mangle: at Simsonsbaylagoon; Oysterpond.

St. Croix ex Millspaugh.
America. (E. a. P.).

221. Combretaceae.

5541. **Quisqualis** Linn.

Quisqualis indica Linn. Spec. (1762) 556. Different coloured jessamine.
Cultivated. [Ind. orient., Ins. Philipp., Afr. trop. orient., Guinea]. (E. a. P.).

5544. **Terminalia** Linn.

Terminalia Catappa Linn. Mant. II (1771) 519. Almond tree.
Cultivated. [Madagascar, Malay arch., Nova Guinea]. (E. a. P.).

5548. **Conocarpus** Gärtn.

Conocarpus erectus Linn. Spec. (1753) 76; Gris. Fl. 277; Duss 295; Millspaugh 516. Button wood.

St. Eustatius: Seashore at Venusbay: n. 970 B.

St. Martin: from Filipsburg to Guanabay: n. 2378 B.; Colebay (coll. George.): n. 2515 B.; shore of the Simsonsbaylagoon near Cul Piquard: n. 2747 B.; near Simsonsbayvillage: n. 3029 B., 3029 B.; Simsonsbay: n. 160.; Lowlands: n. 3266 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Florida to Brazil., Galapagos, Marianne Islands, trop. coast of Africa. (Gris. Fl.).

5551. **Laguncularia** Gärtn.

Laguncularia racemosa Gärtn. f. Fruct. III (1805) 209 t. 217 f. 2; Gris. Fl. 276; Duss 295; Millspaugh 516.

St. Martin: Colebay (coll. George): n. 2497 B.; from Filipsburg to Cul de Sac along the Saltpond: n. 2612 B.; shore of the Simsonsbaylagoon near Cul Piquard: n. 2748 B.; along the Simsonsbaylagoon near the village: n. 3028 B., 3285 B.; Oysterpond n. 376.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Amer. trop. to Florida, trop. Africa. (E. a. P.).

222. Myrtaceae.

5559. **Psidium** Linn.

Psidium Guajava Linn. Spec. (1753) 470; Gris. Fl. 241; Duss 261; Millspaugh 515. Guava tree.

St. Eustatius: in a garden in Oranjestad: n. 512 B., 41 H., 48 G.; slope of the Quill: n. 62, 63, 64; road near English Quarter: n. 41.

Saba: Boobyhill 350 M.: n. 1615 B.; Ladder: n. 40; Longpeak: n. 61; locality unknown: n. 119 L.

I also saw Psidium Guajava: in a gut between Hellsgate and Mastiegut; between Bottom and Marypoint; Crespeenhill.

St. Martin: from Filipsburg to Belvedere: n. 2582 B.; Cul de Sac: n. 60.

I also saw Psidium Guajava: Marigothill to Marigot; Nakedboyhill; lower part of Milldrumhill; Mount Paradis 3—400 M.; Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill. from Mexico to Brasilia. (Urban 1895).

Amomis Berg.

cf. 5566. Pimenta Lindl. sect. I.

Amomis caryophyllata Kr. et Urb. in Urban. Additamenta ad Cognitionem Floræ Indiæ Occidentalis II (1895) 573; Duss 262.

Pimenta acris Kostel. Allg. med. pharm. Fl. IV (1835) 1526; Gris. Fl. 241; Millspaugh 515. Cinnamom tree, Bayberry.

St. Eustatius: Top of the Quill 500 M.: n. 493 B., 56, 57; Bengalen: n. 53.

Saba: between Bottom and Marypoint 300 M.: n. 1479 B., 1557 B.; Boobyhill 300 M.: n. 1596 B.; Bottom: n. 1987 B.; Greathill: n. 54; Bottom: n. 51, 52; Masticgut: n. 55.

St. Martin: Milldrumhill 300—400 M.: n. 3156 B.

St. Croix ex Millspaugh.

Venezuela, Guiana; cult. in Baham. and Ind. Orient. (Urb. 1895).

5573. **Myrcia** DC.

Myrcia paniculata Kr. et Urb. in Urban Additamenta ad Cognitionem Florae Indiae Occidentalis II (1895) 577; Duss 263.

Myrcia coriacea DC. Prodr. III (1828) 243; Gris. Fl. 234; Millspaugh 515. Redwood, Birdsberry.

St. Eustatius: Top of the Quill 400 M.: n. 173 B., 188 B., 260 B., 346 B., 505 B.; locality unknown: n. 114 H.

Saba: Paris 400 M.: n. 1369 B.; Mountain near Windwardside 600 M.: n. 2180 B.; locality unknown: n. 1568 B., 140 L.; Wellgut: n. 43.

St. Martin: Nakedboyhill 50—200 M.: n. 2715 B.; lower part of Mount Paradis: n. 3189 B.; Mount Paradis 300—400: n. 3221 B., 3352 B.; Lowlands: n. 3268 B.

St. Croix ex Millspaugh.

Antill., Brazil. (Urb. 1895).

Myrcia splendens DC. Prodr. III (1828) 244; Gris. Fl. 234; Duss 265. Surinaam cherries.

St. Eustatius: Top of the Quill 400 M.: n. 200 B., 285 B., 358 B.; inner slope of the Quill 350 M.: n. 420 B., 1218 B., 1222 B.; slope of the Quill near Bengalen 50—200 M.: n. 656 B.; slope of the Quill near Bengalen 150 M.: n. 684 B.; slope of the Quill 150 M.: n. 1112 B.; Quill: n. 44, 46, 47; slope of the Quill: n. 45; Little Mountain: n. 44; locality unknown: n. 177 G., 213 G.

Saba: along roads 200—300 M.: n. 1711*a* B.; Windwardside: n. 1945 B.; Hellsgate—Marypoint: n. 2043 B.; Crespeen—Rendezvous: n. 48.

St. Martin: Mount Paradis 150—400 M.: n. 3195 B.; Tintamarre: n. 3396 B.

Cuba, Jamaica, Haiti, St. Domingo, Portorico, St. Thomas, Guadeloupe, Martinique, St. Lucia, St. Vincent, Tobago, Trinidad. (Urban 1895).

5575. **Calyptranthes** Swartz.

Calyptranthes Boldinghii Urb. in Symbolae Antillana VI (1909) 22.
St. Martin: Lowlands: n. 3270 B.

5578. **Eugenia** Linn.

Eugenia axillaris Willd. Spec. II (1800) 970; Gris. Fl. 236; Duss 270; Millspaugh 514. Choakyberry, Pigeonberry.

St. Eustatius: Slope of the Quill near Bengalen 50—200 M.: n. 641 B.; Gilboohill 150 M.: n. 1120 B.; Boven: n. 19, 21; top of the Quill: n. 20; locality unknown: n. 55 H.

Saba: Top of the Cliff near the seaside of Boobyhill: n. 1607*a* B.; Mountain 400 M.: n. 1740 B.; Windwardside: n. 1883 B.; Laddergut: n. 2000 B.; Springbaygut: n. 2117 B.; Greathill: n. 22.

St. Martin: from Filipsburg to Guanabay: n. 2392 B.; from Belvedere to Oysterpond: n. 3055 B., 3072 B.; Lowlands: n. 3263 B.; Tintamarre: n. 3388 B.; top of Centryhill: n. 39.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida, Key, Baham., Antill. (Urban 1895).

Eugenia cordata DC. Prodr. III (1828) 272; var. **Sintensii** Kr. et Urb. in Additamenta ad Cognit. Fl. Ind. Occ. (1895) 656.

Eugenia sessiliflora DC. Prodr. III (1828) 273; Gris. Fl. 236.

St. Eustatius: from Signalhill to Venusbay: n. 960 B.; Gilboohill: n. 1121 B.; near White Wall: n. 1266 B.

St. Croix. (Symb.).

St. Domingo? Portorico, St. Thomas, St. Jan, Tortola, Antigua, Martinique, St. Lucia, St. Vincent, Mustique Island, Becquia Island. (Urban 1895).

Eugenia floribunda West St. Croix (1793) 290; Gris. Fl. 239; Duss 273; Millspaugh 514. Guaveberry.

St. Eustatius: locality unknown: n. 200*a* G.; 40.

St. Martin: in an orchard near Bellevue: n. 2831 B.; Mount Paradis 300—400 M.: n. 3320*a* B.

St. Croix. (Urban 1895).

Antill., Guiana, Brazil. (Urban 1895).

Eugenia fragrans Willd. Spec. (1800) 964.

Anamomis fragrans Gris. Flor. W. I. (1860) 240.

Anamomis punctata Gris. Flor. W. I. (1860) 240.

St. Martin: Top of Nakedboyhill: n. 2715 B.

Florida, Antill. (Urban 1895).

Eugenia Jambos Linn. Spec. (1753) 470.

Jambosa vulgaris DC. Prod. III (1828) 286; Gris. Fl. 235; Duss 274.

Jambosa Jambos Millspaugh 515. Plum rose.

St. Eustatius: Slope of the Quill near Bengalen 50—200 M.: n. 644 B., 26; locality unknown: n. 103 H.

Saba: Crespeen—Rendez-vous 400 M.: n. 27; locality unknown: n. 109 L., 321 L.

I also saw Eugenia Jambos: Bottom; Laddergut.

St. Martin: Mount Paradis 300—400 M.: n. 3347 B.

St. Croix ex Millspaugh.

Indig. in Asia austro-orient. and Australia. (Urban 1895).

Also cultivated.

Eugenia ligustrina Willd. Spec. II (1800) 962; Gris. Fl. 239; Duss 268; Millspaugh 514. Blackberry, Blackcherry.

St. Eustatius: deserted plantations near Tumbledowndickbay: n. 148 B.; slope of the Quill 350 M.: n. 392 B.; top of the Quill 500 M.: n. 473 B., 497 B.; hill near Concordia 100 M.: n. 952 B.; from Little Mountain to Venusbay: n. 986 B., 992 B.; slope of Signalhill: n. 28; Quill: n. 29; Venusbay: n. 30; top of the Quill: n. 31, 32; locality unknown: n. 109 H.

St. Martin: from Filipsburg to Guanabay: n. 2411 B.; Prince quarter (coll. George): n. 2484 B.; from Filipsburg to Belvedere: n. 2584 B.; Cul de Sac: n. 2607 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2946 B., 2952 B.; Milldrumhill 300—400 M.: n. 3137 B.; Lowlands: n. 3280 B.; near Fort Amsterdam: n. 36; Vineyardhill: n. 33, 35; Prince quarter: n. 34; Guanabay: n. 34 *b*.

St. Croix ex Millspaugh.

Baham., Antill., Brazil. (Urban 1895).

Eugenia monticola DC. Prodr. III (1828) 275.

Eugenia Poiretii Berg. in Linnaea XXVII (1856) 186 (excl. syn. Cand., Poir., Spreng.); Gris. Fl. 236; (ex descr.).

Eugenia obtusata Willd. ex Berg. in Linnaea XXVII (1856) 240; Gris. Fl. 237; (ex descr.).

Eugenia buxifolia Gris. Flor. W. I. (1850) 236; (excl. syn.), — non Willd.

Eugenia pallens Gris. Flor. W. I. (1860) 237; (specim. Guad.), — non DC. (Symb.). Duss 269; Millspaugh 515. Birdsberry.

St. Martin: Filipsburg near the Saltpond: n. 2365 B.; Nakedboyhill 200 M.: n. 2585 B.: Marigothill: n. 2609 B.; near Simsonsbaylagoon: n. 2745 B.; near Mulletpond: n. 2768 B.; hill between Mont des Accords and Centryhill: n. 2863 B.; near Oysterpond: n. 3073 B.; Milldrumhill: n. 3116 B.; Mount Paradis: n. 3220 B, 3330 B.; Lowlands: n. 3283 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham. (Hitchc.); Antill. (Urban 1899).

Eugenia procera Poir. in Lam. Enc. Suppl. III (1813) 129; Gris. Fl. 238; Millspaugh 515. Bastard black-berry.

St. Eustatius: deserted plantations near Tumbledowndickbay: n. 149 B.; Signallhill 200 M.: n. 1037 B.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1356 B.; Springbaygut: n. 2098 B.; Peperpot: n. 38.

St. Martin: along roads from Grande Case to Marigot; n. 3100 B.: Mount Paradis 300—400 M.: n. 3321 B.; Colebayhill: n. 37.

St. Croix ex Millspaugh.

Cuba, Jamaica, Haiti, St. Domingo, Portorico, St. Thomas, St. Jan, Antigua, Martinique, Barbados. (Urban 1895).

Eugenia rhombea Kr. et Urb. in Urban. Additamenta ad Cognitionem Florae Ind. Occid. III (1895) 665.

St. Eustatius: Seinpost: n. 39; Wittehoek: n. 40.

Florida, Key West, Baham., Antill. (Urban 1895).

Eugenia uniflora Linn. Spec. (1753) 470; Gris. Fl. 239. Honeyberry, Surinaam cherries.

St. Eustatius: Slope of the lower part of Signalhill: n. 117 B.; deserted plantations near Tumbledowndickbay: n. 143 B.; top of the Quill 400 M.: n. 172 B., 177 B., 326 B.; in a garden in Oranjestad: n. 861 B., 55*a* B., 76 H.

Saba: lower part of the Bottom Mountain 250 M.: n. 1424 B.; Crispeen 400 M.: n. 1720 B.; locality unknown: n. 70 L.

St. Croix ex Millspaugh.

Florida, Antill. (Urban 1895).

223. Melastomataceae.

5633. Tibouchina Aubl.

Tibouchina strigosa Cogn. in Monogr. Phan. VII. (1891) 266.

Chaetogastra strigosa DC. Prod. III (1818) 134; Gris. Fl. 266.

Chaetogastra chironioides Gris. Flor. W. I. (1860) 267 (p. p.); Duss 288.

Tibouchina ornata Baill. Adansonia XII (1877) 74.

Saba: Top of the Mountain 800 M.: n. 18.

Antill., British Guiana. (Cogniaux 1891).

5749. **Charianthus** D. Don.

Charianthus crinitus Naud. in Ann. Sc. Nat. Sér. 3. XVIII (1852) III; Gris. Fl. 264.

Charianthus nodosus Triana Melastom. in Trans. Linn. Soc. XXVIII (1871) 99, var *crinitus* Naud; Duss 286.

Saba: Mountain 600—800 M.: n. 1784 B.; 187 L., 197 L., 203 L. 1, 2, 3.

Antill. (Cogniaux 1891).

5758. **Tetrazygia** Rich.

Tetrazygia discolor DC. Prod. III (1828) 172; Gris. Fl. 255; Duss 280.

St. Eustatius: Top of the Quill: n. 16, 17.

Saba: lower part of the Bottom Mountain 300 M.: n. 1436 B.; between Bottom and Marypoint 100—200 M.: n. 1551 B.; Gainbygut: n. 14, 15.

Antill., French Guiana (Cogniaux 1891).

5759. **Miconia** Ruiz. et Pav.

Miconia impetiolaris D. Don. in Mem. Wern. Soc. IV (1823) 316; Gris. Fl. 256; Duss 284; Millspaugh 516.

St. Eustatius: Top of the Quill 400 M.: n. 310 B.; Bottom of the Quill 300 M.: n. 469 B.

St. Croix ex Millspaugh.

Antill., Bolivia, Panama, Costarica, Honduras, Guatamala, Mexico. (Cogniaux 1891).

Miconia laevigata DC. Prod. III (1828) 188; Gris. Fl. 257; Duss 281; Millspaugh 516.

St. Eustatius: Top of the Quill 400 M.: n. 208 B., 262 B., 338 B., 344 B., 506 B.; slope of the Quill 350 M.: n. 388 B.; Bottom of the Quill 300 M.: n. 452 B.; slope of the Quill near Bengalen 200 M.: n. 742 B.; slope of the Quill: n. 9, 10, 11.

Saba: lower part of the Bottom Mountain 250 M.: n. 1406 B.; Windwardside—Hellsgate: n. 1682 B., 1683 B.; Mountain 800 M.: n. 1825*a* B., 2216 B.; Springbaygut: n. 2119 B.; Peperpot: n. 8;

Mountain: n. 5; Crespeen—Rendez-vous 400 M.: n. 6, 7; locality unknown: n. 41 L., 216 L., 306 L.

St. Martin: Top of the hill on the northern side of Cul de Sac 200—300 M.: n. 3006 B.; along roads from Grande Case to Marigot: n. 3100*a* B.; Milldrumhill: n. 3180 B.; Mount Paradis 300—400 M.: n. 3208 B., 3341 B.

St. Croix ex Millspaugh.

Antill., Mexico, Guatamala, Costarica, Venezuela, Surinam, Guian., Brazil. (Cogniaux 1895).

227. Araliaceae.

5883. **Panax** Linn.

Panax fruticosum Linn. Spec. (1763) 1513.

Cultivated. [Asia trop., Malaya, Polynes.] (Ind. Kew.).

228. Umbelliferae.

5923. **Eryngium** Linn.

Eryngium foetidum Linn. Spec. (1753) 232; Gris. Fl. 308; Duss 324.

Saba: between Bottom and Marypoint 100—200 M.: n. 1537 B.; Mountain near Windwardside 600 M.: n. 2176 B.; locality unknown: n. 37 L.

St. Martin: Top of the hill on the northern side of Cul de Sac 200—300 M.: n. 2985 B.; Mount Paradis 200—400 M.: n. 3205 B.

Antill., Cuba and Panama to Nova Granata and Brazil. (Gris. Fl.).

6062. **Foeniculum** Adans.

Foeniculum vulgare Mill. Gard. Dict. ed. VIII (1768) n. 1.

Cultivated. [Europa]. (Ind. Kew.).

235a. Theophrastaceae.

6282. **Jacquinia** Linn.

Jacquinia armillaris Jacq. Enum. Pl. Carib. (1760) 15; Gris. Fl. 397; Duss 383; Millspaugh 517. Picrous bark.

St. Eustatius: White Wall: n. 807 B.; hill near Concordia: n. 953 B.; seashore near Venusbay: 969 B., 284, 285.

St. Martin: from Filipsburg to Guanabay: 2418 B.; Prince quarter (coll. George): n. 2508 B.; near Mulletpond: n. 2774 B.; Mountain between Mont des Accords and Centryhill: n. 2908 B.; between Mount Vernon and Orientbay: n. 2929 B.; from Belvedere to

Oysterpond: n. 3061 B.; Mount Paradis 200—300 M.: n. 3304 B.; near Colebayhill: n. 65, 137; Prince quarter: n. 606; Guanabay: n. 63, 192.

St. Croix ex Millspaugh.

Cuba, Jamaica, St. Domingo, Portorico, St. Thomas, St. Jan, St. Barthélemy. Montserrat, Guadeloupe, Dominica, St. Vincent, Mustique, Cannouan, Barbados, Grenada, Tobago, Curacao, Bonaire. (Symb.).

Jacquinia Berteri Spreng. Syst. I (1825) 668.

St. Martin: near Mulletpond: n. 2781 B.; Lowlands: n. 3283*a* B.

Anguilla Boldingh.

Baham., Antill. (Symb.).

236. Myrsinaceae.

6285. **Ardisia** Swartz.

Ardisia coriacea Sw. Prod. (1788) 48; Millspaugh 517.

Ardisia guadalupensis Duchass. et Walp. apud Gris. Flor. W. I. (1861) 396; Duss 382. Bastard cinnamom.

St. Eustatius: Top of the Quill 400 M.: n. 196 B., 244 B., 399 B., 44; locality unknown: n. 30, 45.

Saba: Hellsgate: n. 1704 B.; gut between Mastiegut and Hellsgate 300—400 M.: n. 2032 B.; Jenkygut: n. 46; Hellsgate: n. 43; locality unknown: n. 76 L., 183 L.

St. Croix ex Millspaugh.

Portorico, St. Thomas, St. Jan, Tortola, Guadeloupe, Dominica, Martinique, St. Lucia. (Symb.).

6314. **Rapanea** Aubl.

Rapanea ferruginea Mez in Symbolae Antillanae II (1901) 429.

Myrsine laeta Gris. Flor. W. I. (1861) 392.

Saba: Top of the Mountain 800 M.: n. 1836*a* B.; Rendez-vous Mountain 600 M.: n. 2150*a* B.; Mountain near Hellsgate: n. 2278 B.

Antill. Amer. trop. from Mexico to Bolivia. (Symb.).

238. Plumbaginaceae.

6342. **Plumbago** Linn.

Plumbago capensis Thunb. Prod. I Pl. Cap. (1794) 33. Quakerblossom.

Cultivated. [Afr. australis]. (Ind. Kew.).

Plumbago scandens Linn. Spec. (1762) 215; Gris. Fl. 390; Duss 380; Millspaugh 517. Blisterbush.

St. Eustatius: Seashore near Oranjestad: n. 13 B., 42 B.; along roads in Oranjestad: n. 561 B.; in deserted plantations at the seashore near Bengalen: n. 592 B.; gut near Fort de Wind: n. 845 B.; Cultuurvlakte: 354; locality unknown: n. 31 H., 35 G.

I also saw Plumbago scandens: along the lower part of Signalhill; top of Signalhill.

Saba: Bottom: n. 1852 B.; Laddergut 200 M.: n. 1995*a* B.; Peperpot: n. 149, 356: Ladder: n. 352; locality unknown: n. 319 L.

I also saw Plumbago scandens: Forthbaygut.

St. Martin: along roads in Prince quarter: n. 2933 B.

St. Croix ex Millspaugh.

Antill., Mexico to Brazil and Chili, Galapagos. (Gris. Fl.).

239. Sapotaceae.

6361. **Achras** Linn.

Achras sapota Linn. Syst. X ed. II (1759) 988; Millspaugh 517.

Sapota Achras Mill. Gard. Dict. VIII ed. (1768) n. 1; Gris. Fl. 399; Duss 385. Mispel, Sapodille.

St. Eustatius: lower part of Signalhill: n. 115 B.

St. Croix ex Millspaugh.

Baham., Antill., Curaçao from Mexico to Guiana. (Symb.).

Also cultivated.

6363. **Lucuma** A. DC.

Lucuma multiflora A. DC. Prodr. VIII (1844) 168.

Saba: near Hellsgate: n. 1675 B.; Windwardside: n. 2313 B.

St. Croix. (Symb.).

Portorico, St. Thomas, St. Kitts, Montserrat, Guadeloupe, Martinique, St. Lucia, St. Vincent, Grenada, Trinidad. (Symb.).

6368. **Sideroxylon** Linn.

Sideroxylon foetidissimum Jacq. Enum. (1760) 15.

Sideroxylon mastichodendron Jacq. Coll. II (1788) p. 253 t. 17 f. 5; Gris. Fl. 399; Duss 386; Millspaugh 518. Mastictree.

Saba: Hellsgate: n. 2049 B.; Masticgut: n. 46: Jenkygut: n. 40.

St. Croix ex Millspaugh.

Florida, Key, Baham., Antill. (Symb.).

6373. **Dipholis** A. DC.

Dipholis salicifolia A. DC. Prodr. VIII (1844) 188; Gris. Fl. 401; Duss 388; Millspaugh 518.

St. Eustatius: Slope of the Quill on the side of White Wall 200 M.: n. 1168 B.

St. Croix ex Millspaugh.

Florida, Key, Baham., Antill., Yucatan. (Symb.).

6374. **Bumelia** Sw.

Bumelia obovata A. DC. Prodr. VIII (1844) 191.

Bumelia cuneata Sw. Flor. I (1797) 496; Gris. Fl. 401; Duss 613; Millspaugh 517.

St. Eustatius: from Little Mountain to Venusbay: 985 B.; locality unknown: n. 338 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1535 B.

St. Martin: near Mulletpond: n. 2765 B.; at the seashore of Simsonsbay: n. 3035 B.; Colebayhill: n. 49.

St. Croix ex Millspaugh.

Jamaica, St. Domingo, Portorico, St. Thomas, Tortola, St. Barthélemy, Antigua, Montserrat, Guadeloupe, Desirade, Martinique, St. Lucia. (Symb.).

6377. **Chrysophyllum** Linn.

Chrysophyllum argenteum Jacq. Enum. (1760) 15; Duss 385.

Chrysophyllum glabrum Jacq. Enum. (1760) 15; Gris. Fl. 398; Duss 385.

Saba: Gut near Devilshand: n. 2115 B.

Cuba, Haiti, St. Domingo, Portorico, Antigua, Montserrat, Guadeloupe, Marie-Galante, Dominica, Martinique, St. Vincent, Barbados, Grenada, Trinidad. (Symb.).

242. Symplocaceae,

6418. **Symplocos.** Jacq.

Symplocos martinicensis Jacq. Enum. Pl. Carib. (1760) 24; Gris. Fl. 403; Duss 389. Blue berry.

St. Eustatius: Top of the Quill 400 M.: n. 297 B.; top of the Quill 500 M.: n. 474 B.; locality unknown: n. 126, 127, 128, 129.

Saba: Mountain near Windwardside 600 M.: n. 2152 B., 2185 B.

Portorico, St. Thomas, St. Kitts, Montserrat, Guadeloupe, Dominica, Martinique, St. Lucia, St. Vincent, Grenada, Trinidad. (Brand 1901).

243. Oleaceae.

6427. **Forestiera** Poir.

Forestiera Eggersiana Kr. et Urb. in Bot. Jahrb. XV (1893) 339.
St. Martin: Prince quarter: n. 1, 2.
St. Thomas. (Urban 1893).

6428. **Linociera** Swartz.

Linociera compacta R. Br. Prod. (1810) 523; Gris. Fl. 405. Bridgo tree.
Mayepea caribaea O. Ktze Rev. Gen. (1891) 411; Duss 391; Millspaugh 518.
St. Eustatius: Top of the Quill 400 M.: n. 181 B., 261 B., 301 B., 343 B., 352 B.; slope of the Quill near Bengalen 250 M.: n. 700 B.; slope of the Quill near Glassbottle 150 M.: n. 1113 B., 1117 B.; Quill: n. 345; slope of the Quill: n. 343, 344; top of the Quill: n. 336, 337; locality unknown: n. 77 H., 169 G., 40.
I also saw Linociera compacta: Gilboohill.
Saba: lower part of the Bottom Mountain 250 M.: n. 1419 B., 1422 B; Jenkeygut: n. 340.
St. Martin: Milldrumhill: n. 3151 B.
St. Croix ex Millspaugh.
Antill., Guiana. (Urban 1893).

6440. **Jasminum** Linn.

Jasminum azoricum Linn. Spec. (1753) 7.
Cultivated. [Ins. Azor. and Madeira]. (E. a. P.).

Jasminum pubescens Willd. Sp. Pl. I (1798) 37.
Cultivated. [Asia trop.] (Ind. Kew.).

Jasminum undulatum Ker. Gawl. in Bot. Reg. t. 436. Orebian jessamine.
Cultivated. [Himalaya, China]. (Ind. Kew.).

245. Loganiaceae.

6453. **Spigelia** Linn.

Spigelia Anthelmia Linn. Spec. (1753) 149; Gris. Fl. 331; Duss 336.
St. Eustatius: I saw Spigelia Anthelmia at Bengalen.

Saba: lower part of the Bottom Mountain 300 M.: n. 1427 B.; between Bottom and Marypoint 100—200 M.: n. 1522 B., 1529 B.; gut between Hellsgate and Masticgut: 300—400 M.: n. 2050 B.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2876 B.

Anguilla Boldingh.

Antill., Amer. austral. (E. a. P.).

246. Gentianaceae.

6541. **Leiphaimos** Cham. et Schlecht.

Leiphaimos aphylla Gilg in Engl. u. Prantl. Nat. Pfl. fam. IV. 2. (1895) 104.

Voyria uniflora Pers. Syn. I (1805) 284; Gris. Fl. 425; Duss 402.

Voyria aphylla Pers. Syn. I (1805) 284.

St. Eustatius: Top of the Quill 400 M.: n. 296 B.; 450 M.: n. 365 B., 402 B.; top of the Quill: n. 40.

Saba: Mountain 800 M.: n. 1831 B., 2226 B.

Antill., Guiana, Brazil. (E. a. P.).

247. Apocynaceae.

6560. **Allamanda** Linn.

Allamanda cathartica Linn. Mant. II (1771) 214. Yellow bell.

Cultivated. [Antill., Amer. centr. Brazil.] (E. a. P.)

6578. **Plumiera** Linn.

Plumiera alba Linn. Spec. (1753) 210; Gris. Fl. 411; Duss 395; Millspaugh 518. White frangepane, Pigeonwood.

St. Eustatius: in a garden in Oranjestad: n. 49 H., 67 G.

Saba: along roads between Bottom and Windwarside 200 M.: n. 1354 B.

St. Martin: from Filipsburg to Guanabay: n. 2374 B.; Princequarter (coll. George): n. 2464 B.; Fort Willem: n. 2534 B.; near Fort Amsterdam: n. 237, 238.

I also saw Plumiera alba: along roads from Filipsburg to Simsonsbay; from Belvedere to Oysterpond; lower part of Milldrumhill: Lowlands: Tintamarre; gut from Bethlehem to Cul de Sac.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Portorico, St. Thomas, Guadeloupe, Martinique, St. Lucia, Grenada. (Herb. Krug et Urban).

Plumiera rubra Linn. Spec. (1753) 209. Red frangepane.
Cultivated. [Mexico and Venezuela]. (E. a. P.).

6597. **Lochnera** Reichb.

Lochnera rosea Reichb. Comp. (1828) 134.
Vinca rosea Linn. Syst. ed. X (1759) 944; Gris. Fl. 410; Duss 395; Millspaugh 519. Churchyard blossom.

St. Eustatius: Seashore near Oranjestad: n. 36 B.; along roads in Oranjestad: n. 571 B.; slope of the Quill: n. 252; in a garden. n. 38; locality unknown: n. 22 G., 60 H., 330 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1349 B.; Springbaygut: n. 2104 B.: seashore near Forthbaylanding: n. 2146 B.; Ladder: n. 254; locality unknown: n. 74 L., 90 L.

St. Martin: along the saltpond near Filipsburg: n. 2440 B.; Colebay (coll. George): n. 2510 B.

I also saw Lochnera rosea: along roads near Bethlehem; along roads near Grande Case.

St. Croix ex Millspaugh.
In all trop. countries. (E. a. P.).

6603. **Tabernaemontana** Linn.

Tabernaemontana citrifolia Jacq. Sel. Am. St. Hist. (1763) t. 175 f. 13. p. 38; Gris. Fl. 409; Duss 395. Milky tree.

St. Eustatius: Top of the Quill 400 M.: n. 234 B.; inner slope of the Quill 350 M.: n. 464 B.; in a garden in Oranjestad: n. 527 B.; slope of the Quill 300 M.: n. 886 B.; slope of the Quill near Glassbottle: n. 1207 B.; top of the Quill: n. 244, 245, 246.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1357 B.; Windwardside—Hellsgate: n. 1676 B.; Springbaygut: n. 2121 B.; Crispeen—Rendez-vous 400 M.: n. 241; Hellsgategut: n. 243; Marypointgut: n. 242.

St. Martin: near Bethlehem: n. 2671 B.; Mountain between Mont des Accords and Centryhill 0- 200 M.: n. 2867 B.; Mount Paradis 300—400 M.: n. 3213 B., 3325 B.

Antill., Mexico. (Gris. Fl.).

Tabernaemontana coronaria Willd. Enum. Hort. Berol. (1809) 275.
Cultivated. [India orient.] (Ind. Kew.).

Tabernaemontana Cumingiana A. DC. Prod. VIII (1844) 373.
Cultivated. [Ins. Philipp.] (Ind. Kew.).

6619. **Rauwolfia** Linn.

Rauwolfia Lamarkii DC. Prod. VIII. (1844) 337; Gris. Fl. 408; Duss 393; Millspaugh 519. Snakeberry tree, Billy ache, Antigua balsam.

St. Eustatius: Top of the Quill 500 M.: n. 480 B.; slope of the Quill near Bengalen 50—200 M.: n. 647 B., 739 B.; gut near Fort de Wind 50 M.: n. 840 B.; along roads in Oranjestad: n. 935 B., 1069 B.; near Boven: 200 M.: n. 1235 B., 240; slope of the Quill 200 M.: n. 239; near Roundhill: n. 37; locality unknown: n. 27, 237 G., 203 H.

Saba: between Bottom and Marypoint 300 M.: n. 1468 B.; locality unknown: n. 270 L.

St. Martin: from Filipsburg to Guanabay: n. 2361 B.; Fort Willem 50 M.: n. 2541 B.; Nakedboyhill 50—200 M.: n. 2684 B.; in pastureground near Bellevue: n. 2812*a* B., 2825 B.; lower part of Milldrumhill: n. 3164 B.

I also saw Rauwolfia Lamarkii: along roads from Filipsburg to Nakedboyhill; near Saline; in pasture ground near Belvedere; Lowlands; Mount Paradis 100—200 M.; Tintamarre.

St. Croix ex Millspaugh.

Antill., Equador. (Gris. Fl.).

6632. **Thevetia** Adans.

Thevetia neriifolia Juss. ex Steud. Nom. Ed. II. II (1841) 680.

Cultivated. [Antill. and Mexico to Brazil.] (E. a. P.).

6661. **Urechites** Müll.—Arg.

Urechites suberecta Müll.—Arg. in Linnaea XXX (1859-60) 444.

Echites suberecta Jacq. Enum. Pl. Carib. (1760) 13; Gris. Fl. 415; Millspaugh 518. Bitterpot.

St. Eustatius: on the top of the Cliff between Oranjestad and Fort de Wind: n. 759 B., 776 B.; Signalhill 200 M.: n. 1045 B.; Cultuurvlakte: n. 248; near Brookswell: n. 247; near Sugarloaf: n. 249; locality unknown: n. 184 H.

Saba: lower part of the Bottom Mountain 250 M.: n. 1395 B.

St. Martin: Fort Willem 50 M.: n. 2549 B.; near Fort Amsterdam: n. 250.

I also saw Urechites suberecta: Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Cuba, Jamaica, Hispaniola, Portorico, St. Thomas, St. Kitts. (Herb. Krug et Urban).

6687. **Nerium** Linn.

Nerium Oleander Linn. Spec. (1753) 209. Oleander.

Cultivated. [From Portugal to Mesopotamia]. (E. a. P.).

248. Asclepiadaceae.

6736. **Cryptostegia** R. Br.

Cryptostegia grandiflora R. Br. in Bot. Reg. t. 435 (1819).

Cultivated. [Patria ignot.] (Symb.).

6791. **Asclepias** Linn.

Asclepias nivea Linn. Spec. (1753) 215; Gris. Fl. 419.

Asclepias Curassavica Linn. Spec. (1753) 215; Gris. Fl. 419; Duss 398; Millspaugh 519. Ipecacuanha.

St. Eustatius: Locality unknown: n. 1 H., 134 G.; slope of the Quill: n. 52, 222, 223.

Saba: between Bottom and Marypoint 100—200 M.: n. 1517*a* B.; Paris 200—400 M.: n. 221; locality unknown: n. 160 L.

St. Martin: Milldrumhill 200—300 M.: n. 3120 B.; Mount Paradis 300—400 M.: n. 3329 B.; Mary's Fancy: n. 220.

St. Croix ex Millspaugh.

Baham., Antill.; widely dispersed in both hemisph. (Symb.).

6792. **Calotropis** R. Br.

Calotropis procera R. Br. in Ait. Hort. Kew. Ed. 2 (1811) II 78; Gris. Fl. 420; Duss 399; Millspaugh 519. Liberty tree, Sprain leaf.

St. Eustatius: Top of the Quill 500 M.: n. 475 B.; in deserted plantations near English Quarter: n. 998 B.; locality unknown: n. 43 H., 54 G.

Saba: along the seashore near Forthbaylanding: n. 1646 B.; locality unknown: n. 113 L.

I also saw Calotropis procera: Flat Point.

St. Martin: near Simsonsbayvillage: n. 3255 B.; locality unknown: n. 3610 B.

I also saw Calotropis procera: on Mount Paradis 100—200 M.

Anguilla Boldingh.
St. Croix ex Millspaugh.
Indig. in Africa sept. and Ind. Orient. (Symb.).

6798. **Metastelma** R. Br.

Metastelma parviflorum R. Br. in Wern. Soc. I (1809) 52; Duss 398.

Metastelma Paralias Dcne in DC. Prodr. VIII (1844) 514; Gris. Fl. 417.

Metastelma Schlechtendalii Gris. Flor. W. I. (1861) 417; (nec Dcne); (Symb.); Millspaugh 519.

St. Martin: juxta salinas prope Filipsbourg, Febr. 1821: Plee; (Symb.).

Lowlands: n. 3267*a* B.

Baham. (Hitchc.); Antill. (Symb.).

6907. **Hoya** R. Br.

Hoya carnosa R. Br. in Mém. Wern. I (1809) 27.

Cultivated. [Ins. Malay.] (Symb.).

6938. **Ibatia** Dcne.

Ibatia maritima Dcne. in DC. Prodr. VIII (1844) 599; Millspaugh 519.

Ibatia muricata Gris. Flor. W. I. (1861) 421; Duss 400.

Lachnostoma maritimum Nichols. Dict. Gardn. II 236. Mariapompoen.

St. Eustatius: Bengalen: n. 634 B.; near Boven 200 M.: n. 1232 B.; locality unknown: n. 225 H., 277 G.

St. Martin: from Filipsburg to Guanabay: n. 2400 B.; near Fort Willem 50 M.: n. 2789 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2861 B.

I also saw Ibatia maritima: Mount Paradis 100—200 M.

St. Croix ex Millspaugh.

Haiti, St. Domingo, St. Thomas, Antigua, Guadeloupe, Dominica, Martinique, St. Vincent. (Symb.).

249. Convolvulaceae.

6968. **Cuscuta** Linn.

Cuscuta americana Linn. Spec. (1753) 124; Gris. Fl. 476; Duss 443; Millspaugh 519. Love wine.

St. Eustatius: in deserted plantations at the seashore near Bengalen: 587 B.: Cultuurvlakte: n. 141: seashore: n. 140; locality unknown: n. 99 H., 186 G.

Saba: lower part of the Bottom Mountain 250 M.: n. 1413 B.; locality unknown: n. 106 L.

I also saw Cuscuta americana in Laddergut.

St. Martin: from Filipsburg to Guanabay: n. 2349 B.; from Filipsburg to Belvedere: n. 2578 B.; between Mont Chambord and the Saline: n. 2922 B.: Cul de Sac: n. 295.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

Cuscuta umbellata H. B. et K. Nov. Gen. et Spec. III (1818) 121; Gris. Fl. 476.

Saba: near Vischvijver: n. 2922 B.

Jamaica, New Mexico to Brazil (Gris. Fl.).

6973. **Evolvulus** Linn.

Evolvulus argyraeus Choisy Conv. Rar. (1838) 153.

St. Martin: Tintamarre: n. 3371 B.

Equador. (Ind. Kew.).

Evolvulus glaber Spreng. Syst. I (1825) 862.

Evolvulus mucronatus Sw. ex Wikst. in Vet. Acad. Handl. Stockholm (1827) 61; Gris. Fl. 475; Millspaugh 520.

St. Martin: along roads from Bethlehem to Mont Chambord: n. 2916 B.; between Belvedere and Oysterpond: n. 3066 B.; near Fort Amsterdam: n. 150; locality unknown: n. 151.

St. Croix ex Millspaugh.

Baham., Antill., Portorico to Peru. (Gris. Fl.).

Evolvulus sericeus Sw. Prod. Veg. Ind. Occ. (1788) 55; Gris. Fl. 475; Duss 442.

Evolvulus incanus Pers. Syn. I (1805) 288.

St. Eustatius: Top of the Quill: n. 380 B.; top of the Cliff between Oranjestad and Fort de Wind: n. 760 B.; White Wall: n. 43.

St. Martin: along roads from Colebayhill to Simsonsbay: n. 3014 B.; Fort Willem: n. 2793*a* B; Tintamarre: n. 3371 B.

Baham., Antill., Texas to Montevideo. (Gris. Fl.).

6986. **Porana** Burm.

Porana paniculata Roxb. Hort. Beng. (1814) 13. White coralita.

Cultivated. [India orient. Malay.] (Ind. Kew.).

6991. **Jacquemontia** Choisy.

Jacquemontia pentantha G. Don. Gen. Syst. IV (1838) 283; Millspaugh 521.

Jacquemontia violacea Choisy in Mém. Soc. Phys. Genèv. VIII 1. (1838) 61; Duss 442.

Convolvulus pentanthus Jacq. Coll. IV. 210; Gris. Fl. 474.

St. Eustatius: Seashore near White Wall: n. 852 B.; near Concordia: n. 948 B.; Gilboohill: n. 1119 B., 1128*a* B.; Little Mountain: n. 1163*a* B.; Golden Rock: n. 55; locality unknown: n. 222 H.

Saba: Boobyhill: n. 1576 B.

Portorico, Becquia, St. Thomas, Barbuda, Guadeloupe, Martinique, St. Vincent, Grenada, Barbados. (Herb. Krug et Urban).

6999. **Operculina** Silva.

Operculina ventricosa Peter in Engl. u. Prantl. Natürl. Pflanzenfam. IV. 3*a*. (1891) 32. Hoofdpijnblad.

Cultivated. [Antill.] (Herb. Krug et Urban).

7003. **Ipomoea** Linn.

Ipomoea arenaria Steud. Nom. Ed. II. 1. (1841) 815.

St. Martin: near Mulletpond: n. 2777 B.; Lowlands: n. 3264 B.

St. Croix (Herb. Krug et Urban).

Cuba, Portorico, St. Thomas. (Herb. Krug et Urban).

Ipomoea batatas. Poir. Encycl. VI (1804) 14. Sweet potatoes.

Cultivated. [Amer. centr.] (E. a. P.).

Ipomoea dissecta Pers. in Linn. Syst. ed. XIV (1797) 207 in nota; Fl. 467; Duss 435.

Ipomoea sinuata Orteg. Hort. Matr. Dec. (1800) 84; Millspaugh 520.

St. Eustatius: Slope of the Quill on the side of White Wall 200 M.: n. 1183 B.; Fairplay: n. 1, 3; locality unknown: n. 164 G.

Saba: Bottom: n. 4.

St. Martin: Cul de Sac—Marigothill 0—200 M.: n. 2628 B.; French frontier: n. 2; locality unknown: n. 3598 B.

St. Croix ex Millspaugh.

All trop. countries. (Gris. Fl.).

Ipomoea fastigiata Sweet. Hort. Brit. ed. I. (1823) 288; Gris. Fl. 468; Duss 436; Millspaugh 520. Wild potatowine.

St. Eustatius: Slope of the Quill near Bengalen 200 M.: n. 689 B.; slope of the Quill: n. 177; locality unknown: n. 220 H., 226 G.., 270 G.

Saba: lower part of the Bottom Mountain 300 M.: n. 1445 B.; between Bottom and Marypoint 100—200 M.: n. 1464 B.; Mountain 600 M.: n. 1745 B.; Laddergut 0—200 M.: n. 2010 B.; Windwardside: n. 2281 B.; Crespeen—Rendez-vous: n. 179; Rendez-vous 400 M.: n. 178; locality unknown: n. 68 L., 218 L.

St. Martin: from Filipsburg to Guanabay: n. 2391 B.; along roads in Prince quarter: n. 2913 B.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

Ipomoea Nil Roth. Catalect. Fasc. I (1797) 36; Gris. Fl. 473; Duss 441.

Pharbitis Nil Choisy in Mem. Soc. Phys. Genèv. VI (1833) 441; Millspaugh 521.

Ipomoea hederacea Jacq. Coll. I (1786) 124.

St. Eustatius: inner slope of the Quill 350 M.: n. 458 B.

Saba: Slope of the Mountain near St. John's 300 M.: n. 1732 B.

St. Martin: Mount Paradis 100—200 M.: n. 3294 B.

St. Croix ex Millspaugh.

In warmer countries of both hemisph. (Hemsley 1884).

Ipomoea pentaphylla Jacq. Coll. II (1788) 297; Gris. Fl. 467; Duss 436; Millspauch 520. Noyeaux.

St. Eustatius: Cultuurvlakte: n. 196; locality unknown: n. 19 H., 281 H.

I also saw Ipomoea pentaphylla: on the slope of the Cliff.

Saba: Locality unknown: n. 30 L., 363 L.

St. Croix ex Millspaugh.

Antill., Venezuela, Equador, Pacif. Isl., Asia trop. and Africa. (Gris. Fl.).

Ipomoea pes caprae Roth. Nov. Pl. Sp. (1821) 109; Gris. Fl. 470; Duss 438; Millspaugh 520.

Ipomoea biloba Forsk. Fl. Aegypt. Arab. (1775) 44. Sea wine.

St. Eustatius: Seashore near Oranjestad: n. 10 B., 32 B., 152 H.; seashore near White Wall: n. 857 B.; seashore: n. 162, 163.

I also saw Ipomoea pes caprae: Seashore near Tumbledowndickbay.

St. Martin: Guanabay: n. 2425 B.; near Fort Amsterdam: n. 164.

I also saw Ipomoea pes caprae: at Simsonsbay.

St. Croix ex Millspaugh.

In all trop. and subtrop. countries. (Hemsley 1884).

Ipomoea sphenophylla Urb. in Symbolae Antillanae V (1908) 474.
St. Eustatius: Signalhill: n. 1038 B.
St. Eustatius. (Symb.).

Ipomoea violacea Linn. Spec. (1753) 161.
St. Martin: Tintamarre: n. 3374 B.
Venezuela, Antill. (Herb. Krug et Urban).

7004. **Calonyction** Choisy.

Calonyction speciosum Choisy Conv. Or. (1834) 59.
Ipomoea bona nox Linn. Spec. (1762) 288; Gris. Fl. 466; Duss 434; Millspaugh 520. Lilac bell.
St. Eustatius: Slope of the Quill: n. 165; locality unknown: n. 280 H.
St. Croix ex Millspaugh.
Amer. trop. (Ind. Kew.).

Calonyction tuba Colla. Nov. Spec. Calon. (1840) 15.
Ipomoea tuba G. Don. Gen. Syst. IV. (1838) 271; Gris. Fl. 467; Duss 434; Millspaugh 521.
Ipomoea grandiflora Lam. Tabl. Encyc. I (1791) 467.
St. Eustatius: on the slope of the Cliff near Oranjestad: n. 59 B.; seashore near Tumbledowndickbay: n. 163 B.
St. Croix ex Millspaugh.
Antill., Guiana. (Gris. Fl.).

7005. **Quamoclit** Moench.

Quamoclit vulgaris Choisy Mem. Soc. Phys. Genèv. VI (1833) 434.
Cultivated. [India orient.] (E. a. P.).

251. Hydrophyllaceae.

7037. **Hydrolea** Linn.

Hydrolea jamaicensis Raeusch. Nom. Ed. III (1797) 76.
Nama jamaicense Linn. Spec. ed. X (1759) 950; Gris. Fl. 477; Duss 444; Millspaugh 521.
St. Eustatius: near English Quarter: n. 1021 B.
St. Croix ex Millspaugh.
Bermud., Florida, Texas, Mexico, Antill. (Hemsley 1884).

252. Borraginaceae.

7038. **Cordia** Linn.

Cordia salvifolia Juss. in Poir. Encyc. VII (1806) 46; Gris. Fl. 480; Duss 447.

St. Eustatius: Little Mountain: n. 1141 B., 1154 B.; slope of the Quill above White Wall: n. 1173 B., 1176 B.

Saba: Hellsgate: n. 1686 B.; St. Giles quarter: n. 1861 B.; gut near Devilshand: n. 2088 B.

Guadeloupe, Martinique. (Herb. Krug et Urban).

Cordia Sebestena Linn. Spec. (1753) 190. Scarlet accordia.

Cultivated. [Baham., Antill., Cuba to Guiana and Nova Granata]. (Gris. Fl.).

Cordia sulcata DC. Prod. IX. (1845) 488; Gris. Fl. 480; Millspaugh 522. Manjack.

St. Eustatius: Quill: n. 93.

Saba: between Bottom and Marypoint 300 M.: n. 1477 B., 1495 B.; Windwardside: n. 1938 B.; Gainbygut 500 M.: n. 90, 91, 92.

St. Croix ex Millspaugh.

Antill., Cuba to French Islands. (Gris. Fl.).

Cordia tremula Gris. Flor. W. I. (1861) 479.

Saba: from the Sulphurmines to Marypoint: n. 2030*a* B.

Antigua, Martinique, St. Vincent, Grenada, Barbados, Tobago. (Herb. Krug et Urban).

7042. **Beureria** Jacq.

Beureria succulenta Jacq. Enum. Pl. Carib. (1760) 14; Gris. Fl. 481; Duss 449.

Ehretia Bourreria Linn. Spec. (1762) 275; Millspaugh 522. White chank.

Saba: Bottom: n. 1983 B.: from Sulphurmines to Marypoint: n. 2031*a* B.; gut near Devilshand: n. 2093*a* B.; locality unknown: n. 307 L.

St. Martin: Marigotroad near Marigot: n. 2805 B., 2807 B.; lower part of the Milldrumhill: n. 3174 B.; Tintamarre: n. 3379 B., 3380 B.; gut from Bethlehem to Cul de Sac 0—100 M.: n. 3413 B.; Colebayhill: n. 63.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham. (Herb. Leiden).; Antill., Cuba to French Islands, Curaçao. (Gris. Fl.).

7045. **Rochefortia** Swartz.

Rochefortia acanthophora Gris. Flor. W. I. (1861) 482; Millspaugh 523.

St. Eustatius: Little Mountain: n. 1140*a* B.

St. Martin: Filipsburg near the saltponds: n. 2356*a* B.; Mount Paradis: n. 3244*a* B.

St. Domingo, Portorico, St. Jan. (Herb. Krug et Urban).

7051. **Tournefortia** Linn.

Tournefortia bicolor Sw. Prod. Veg. Ind. Occ. (1788) 40; Gris. Fl. 483; Duss 451.

Saba: Bottom: n. 2237 B.; Quarter: n. 147; Gainby gut: n. 146.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

Tournefortia caribaea Gris. Flor. W. I. (1861) 484.

Saba: Hellsgate: n. 148, 149.

Dominica, Martinique, St. Vincent, Barbados. (Herb. Krug et Urban).

Tournefortia foetidissima Linn. Spec. (1753) 140; Gris. Fl. 483; Duss 450; Millspaugh 523.

St. Eustatius: Bottom of the Quill: 300 M.: n. 443.

Saba: lower part of the Bottom Mountain 300 M.: n. 1431 B.; Mountain 800 M.: n. 1810 B.; gut between Hellsgate and Mastic-gut 300—400 M.: n. 2030 B.; Gainbygut: n. 150, 151; locality unknown: n. 186 L.

St. Martin: Marigothill: n. 2649*a* B.; Marigotroad: n. 2806 B.; hill on the northern side of Cul de Sac: n. 2996 B.; Mount Paradis: n. 3317*a* B.; gut from Bethlehem to Cul de Sac: n. 3411 B.

St. Croix ex Millspaugh.

Hispaniola, Portorico, Dominica, Guadeloupe, Martinique. (Herb. Krug et Urban).

Tournefortia gnaphalodes R. Br. Prod. (1810) 496; Gris. Fl. 483; Duss 450; Millspaugh 523. White lavendel, Sea purslane.

St. Eustatius: White Wall: n. 809 B.; Concordiabay: n. 154; seashore: n. 267 H.

Saba: Bay: n. 66.

St. Martin: Guanabay: n. 2426 B.; near Mulletpond: n. 2770 B.; near Fort Amsterdam: n. 152.

I also saw Tournefortia gnaphalodes: Green Key.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida and throughout the West Indies. (Hemsley 1884).

Tournefortia hirsutissima Linn. Spec. (1753) 140; Gris. Fl. 483; Duss 450; Millspaugh 523.

St. Martin: Hill on the northern side of Cul de Sac 0—100 M.: n. 2976 B.; top of the hill on the northern side of Cul de Sac 200—300 M.: n. 2990 B.; Mount Paradis 300—400 M.: n. 3330 B.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

Tournefortia volubilis Linn. Spec. (1753) 140; Gris. Fl. 484; Duss 451; Millspaugh 523.

St. Eustatius: between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 762 B., 788 B.; near Maryglory 150 M.: n. 1144 B.

St. Martin: from Filipsburg to Belvedere: n. 2565 B., 2566*a* B.: near Fort Willem: n. 2791 B.; from Belvedere to Oysterpond: n. 3064 B.; Tintamarre: n. 3381 B.; locality unknown: n. 164, 165.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Venezuela to Brazil. (Gris. Fl.).

7052. **Heliotropium** Linn.

Heliotropium curassavicum Linn. Spec. (1753) 130; Gris. Fl. 486; Duss 453; Millspaugh 523. Sealavendel.

St. Eustatius: Seashore near Oranjestad: n. 9 B.; seashore near Tumbledowndickbay: n. 166 B.; Signalhill: n. 1055 B.; seashore near Fairplay: n. 97.

St. Martin: Guanabay: n. 2422 B.; near Fort Amsterdam: n. 59.

I also saw Heliotropium curassavicum: at Simsonsbayvillage; Oysterpond.

St. Croix ex Millspaugh.

Amer. trop. and subtrop., Marokko, the Cape, Australia. (E. a. P.).

Heliotropium indicum Linn. Spec. (1753) 130; Gris. Fl. 485; Duss 452; Millspaugh 523. Eye bright.

St. Eustatius: Bengalen: n. 631 B.; along roads near Glassbottle: n. 887 B.; slope of the Quill: n. 115; English Quarter: n. 119; locality unknown: n. 14 H., 15 G.

Saba: Crispeen 400 M.: n. 1726 B.

St. Martin: near Bethlehem: n. 2672 B.; between Mount Vernon and Orientbay: n. 2941 B.; Mary's Fancy: n. 74; locality unknown: n. 73.

I also saw Heliotropium indicum: Mount Paradis

St. Croix ex Millspaugh.

All trop. countries. (E. a. P.).

Heliotropium microphyllum Sw. ex Wikstr. in Vet. Acad. Handl. Stockh. (1827) 58; Gris. Fl. 486.

St. Martin: in deserted plantations near Simsonsbayshore: n. 3034 B.; Tintamarre: n. 3372 B.

Anguilla Boldingh.

Antigua, Guadeloupe. (Herb. Krug et Urban). Baham. (Hitchc.).

Heliotropium parviflorum Linn. Mant. II (1771) 201; Gris. Fl. 485; Duss 452; Millspaugh 523. Eyebright.

St. Eustatius: in a garden in Oranjestad: n. 80 B.; along roads in Oranjestad: n. 517 B.; Bengalen: n. 622 B.; slope of the lower part of the Quill near Bengalen: n. 732 B.; slope of the Quill: n. 72; in a garden: n. 129; locality unknown: n. 7 G., 7 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1361 B.; Crispeen 400 M.: n. 1721 B.; Laddergut 0—200 M.: n. 1956 B.; Bottom: n. 130.

St. Martin: from Filipsburg to Guanabay: n. 2344 B.; Prièregut: n. 128.

I also saw Heliotropium parviflorum: on Nakedboyhill.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Florida and Texas to Peru and Brazil. (E. a. P.).

Heliotropium peruvianum Linn. Spec. (1762) 187.

Cultivated. [Peru]. (Ind. Kew.).

253. Verbenaceae.

7138. **Verbena** Linn.

Verbena chamaedrifolia Juss. in Ann. Mus. Par. VII (1806) 73. Lilac verbena.

Cultivated. [Argentin. and South Brazil.] (E. a. P.).

7144. **Lantana** Linn.

Lantana Camara Linn. Spec. (1753) 627; Gris. Fl. 495; Duss 463; Millspaugh 524. Sage.

St. Eustatius: Top of the Quill 400 M.: n. 209 B., 267 B.; near Maryglory 150 M.: n. 1159 B.; slope of the Quill on the side of

White Wall 200 M.: n. 1166 B.; Oranjestad: n. 165, 166; Cultuurvlakte: n. 167, 168, 169, 170; locality unknown: n. 171, 88 G., 110 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1293 B.; Greathill 400 M.: n. 1380 B.; along the Forthgut 150—200 M.: n. 1624 B.; Laddergut 200 M.: n. 2002 B.; Bottom: n. 2255 B.; Ladder: n. 172; Bottom: n. 173; locality unknown: n. 253 L.

St. Martin: from Filipsburg to Guanabay: n. 2364 B.; Princequarter (coll. George): n. 2472 B.; Fort Willem 0—50 M.: n. 2535 B.; from Filipsburg to Belvedere: n. 2564 B; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2881 B.; from Belvedere to Oysterpond: n. 3046 B., 3083 B.; along roads from Grande Case to Marigot: n. 3105 B.; Vineyardhill: n. 175; Guanabay: n. 174.

I also saw Lantana Camara on: Nakedboyhill; lower part of Milldrumhill; hills on the eastern side of Cul de Sac.

St. Croix ex Millspaugh.

In all warmer countries of America; also in the Old world. (Hemsley 1884).

Lantana involucrata Linn. Cent. Pl. II (1756) 22; Gris. Fl. 496; Duss 464; Millspaugh 524. Sage.

St. Eustatius: Seashore near Oranjestad: n. 14 B.; slope of the lower part of Signalhill: n. 101 B.; seashore near Tumbledowndickbay: n. 160 B.; top of the Quill 400 M.: n. 218 B., 508 B.; along roads in Oranjestad: n. 580 B., 1100 B.; slope of the Quill near Bengalen 100 M.: n. 664 B., 670 B.; 200 M.: n. 739*a* B.; between Oranjestad and Fort de Wind on the top of the Cliff 40 M.: n. 773 B., 779 B., 786 B.; slope of the Quill: n. 194, 195, 196; Cultuurvlakte: n. 197, 198; English Quarter: n. 199, 200; locality unknown: n. 56 H., 89 G.

Saba: along the Forthgut 150—200 M.: n. 1637 B.; Hellsgate—Marypoint: n. 2036 B.; Marypoint: n. 201.

St. Martin: Prince quarter (coll. George.): n. 2556 B., 2485 B.; Fort Willem 0—50 M.: n. 2538 B.; from Filipsburg to Belvedere: n. 2560 B.; shore of the Simsonsbaylagoon near Cul Piquard: n. 2742 B.; near Mulletpond: n. 2761 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2882 B.; between Mount Vernon and Orientbay: n. 2930 B.; Mount Paradis 100—200 M.: n. 3353 B.; Green Key: n. 3363 B.; Tintamarre: n. 3399 B.; hills on the eastern side of Cul de Sac: n. 3440 B.; near Fort Amsterdam: n. 202; Colebayhill: n. 203; French frontier: n. 204, 212.

I also saw Lantana involucrata: on one of the Islands in Simsonsbaylagoon.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida and Antill., Mexico and northern part of Amer. austr. (Hemsley 1884).

7145. **Lippia** Linn.

Lippia reptans H. B. et K. Nov. Gen. et Sp. II (1817) 263; Gris. Fl. 495; Duss 462.

St. Martin: near Filipsburg: n. 2336 B.; from Filipsburg to Guanabay: n. 2419 B.; Guanabay: n. 186.

Anguilla Boldingh.

Antill., Mexico to Brazil. (Gris. Fl.).

7148. **Bouchea** Cham.

Bouchea Ehrenbergii Cham. in Linnaea VII (1832) 253; Gris. Fl. 493; Millspaugh 523. Vervine.

St. Eustatius: Locality unknown: n. 299 G., 228 H.

Saba: Windwardside: n. 1922 B.

St. Croix ex Millspaugh.

Amer. and Afric. (E. a. P.).

7151. **Stachytarpheta** Vahl.

Stachytarpheta jamaicensis Vahl. Enum. I (1804) 206; Gris. Fl. 494; Duss 461.

Stachytarpheta indica Vahl. Enum. I (1804) 206.

Valerianoides jamaicensis Medic. Phil. Bot. I (1789) 177; Millspaugh 525. Purple wormbush.

St. Eustatius: in a garden in Oranjestad: n. 92 B.; Bengalen: n. 605 B.; slope of the Quill near Bengalen 150 M.; n. 685*a* B.; White Wall: n. 817 B.; Cultuurvlakte: n. 227, 229; slope of the Quill: n. 228; locality unknown: n. 293 H., 305 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1331 B.; top of the Cliff near the seaside of Boobyhill: n. 1606 B.; Windwardside: n. 2323 B.; Ladder: n. 230: locality unknown: n. 346 L.

I also saw Stachytarpheta jamaicensis: Crispeen.

St. Martin: from Filipsburg to Belvedere: n. 2581 B.

I also saw Stachytarpheta jamaicensis: Margothill—Marigot; in pasture-ground near Bellevue; hill between Mont des Accords and Centryhill; lower part of the Milldrumhill; Lowlands.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida and Mexico to Brazil.; also in Afr. trop. and Asia. (Hemsley 1884).

7153. **Priva** Adans.

Priva echinata Juss. in Ann. Mus. Par. VII (1806) 69; Gris. Fl. 493; Duss 461.

Priva lappulacea Pers. Syn. II (1807) 139; Millspaugh 524.

St. Eustatius: along roads in Oranjestad: n. 557 B.; along roads near Glassbottle: n. 873 B.; in a garden in Oranjestad: n. 1275 B.; Quill: n. 219; locality unknown: n. 220, 221, 222, 38 G.

Saba: Boobyhill: n. 1594 B.; Laddergut 0—200 M.: n. 2019 B., 223; Peperpot: n. 224; Bottom: n. 225, 226.

St. Martin: Marigotroad near Marigot: n. 2814 B.

St. Croix ex Millspaugh.

Bermud., Florida and Mexico to Brazil. (Hemsley 1884).

7161. **Citharexylum** Mill.

Citharexylum quadrangulare Jacq. Enum. Pl. Carib. (1760) 26; Gris. Fl. 497; Duss 465; Millspaugh 524. Susannaberry.

St. Eustatius: on the slope of the Cliff near Oranjestad: n. 53 B.; seashore: n. 152; Quill: n. 153; top of the Quill 400 M.: n. 271 B., 641*a* B.; slope of the Quill near Bengalen: n. 746 B.; hills near Concordia: n. 984*a* B.; locality unknown: n. 107 H., 121 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1314 B.; between Bottom and Marypoint 100—200 M.: n. 1527 B.; Paris: n. 154; locality unknown: n. 182 L., 190 L., 336 L.

St. Martin: Prince quarter (coll. George): n. 2473*a* B.; from Filipsburg to Guanabay: n. 2385 B., 2409 B.; Marigotroad near Marigot: n. 2818 B.; Centryhill: n. 155.

St. Croix ex Millspaugh.

Antill., Guiana. (Gris. Fl.).

7162. **Duranta** Linn.

Duranta repens Linn. Spec. (1753) 637; Millspaugh 524.

Duranta Plumieri Jacq. Select. Am. (1763) 186 t. 176 f. 76; Gris. Fl. 498; Duss 465. Adonis.

St. Eustatius: in a garden in Oranjestad: n. 1058 B.; near Maryglory 150 M.: n. 1137 B., 1157 B.; locality unknown: n. 139 H., 298 G., 1013 B.

Saba: Springbaygut: n. 2095 B.; Windwardside: n. 2308 B.; locality unknown: n. 364 L.

St. Martin: Point Blanche (coll. George): n. 2488 B.; along roads from Grande Case to Marigot: n. 3097 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

From Bolivia and Brazil. to Mexico and the Antill. (E. a. P.).

Also cultivated.

7178. **Aegiphila** Jacq.

Aegiphila martinicensis Jacq. Obs. Bot. II (1767) 3; Gris. Fl. 500; Duss 466; Millspaugh 523. Bastard white root.

St. Eustatius: Slope of the Quill: n. 246; top of the Quill: n. 386*a* B., Quill: n. 894 B.; locality unknown: n. 137 H., 212.

St. Croix ex Millspaugh.

Antill., Cuba and Panama to Guiana. (Gris. Fl.).

7191. **Clerodendron** Linn.

Clerodendron aculeatum Gris. Flor. W. I. (1861) 500; Duss 467; Millspaugh 524. Haguebush.

St. Eustatius: Seashore near Oranjestad: n. 24 B., 60 B.; Bengalen: n. 637 B.; Cultuurvlakte: n. 158, 159, 161; Cliff near Oranjestad: n. 162; locality unknown: n. 95 G., 147 H., 226 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1351 B.

I also saw Clerodendron aculeatum: along Forthbaygut

St. Martin: Fort Willem 0—500 M.: n. 2547 B., 2792 B.; Fort Amsterdam: n. 160.

I also saw Clerodendron aculeatum near Mont Chambord.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Amer. trop. (E. a. P.).

Clerodendron fallax Lindl. Bot. Reg. (1844) t. 19.

Cultivated. [Java]. (Ind. Kew.).

Clerodendron fragrans Willd. Enum. Hort. Berol. (1809) 659.

Cultivated. [China]. (E. a. P.).

Clerodendron Thomsonae Balf. Edinb. New. Phil. Journ. N. S. XV (1862) 233.

Cultivated. [Afr. trop.] (Ind. Kew.).

7205. **Avicennia** Linn.

Avicennia nitida Jacq. Enum. Pl. Carib. (1760) 25; Gris. Fl. 502; Duss 470; Millspaugh 523. Saltpond tree.

St. Martin: Colebay (coll. George): n. 2498 B.; along roads from Bethlehem to Mont Chambord: n. 2911 B.; along Simsonsbaylagoon near the village: n. 3026 B.; Oysterpond: n. 135; Prince quarter: n. 136.

I also saw Avicennia nitida: near Fort Amsterdam; one of the Islands in Simsonsbaylagoon.

St. Croix ex Millspaugh.

Antill., Cuba to Brazil., Afr. trop. (Gris. Fl.).

254. Labiatae.

7264. **Leonotis** R.Br.

Leonotis nepetaefolia R. Br. in Ait. Hort. Kew. ed. II. III. (1811) 409; Gris. Fl. 492; Duss 460; Millspaugh 525. Adonis abbot.

St. Eustatius: in a garden in Oranjestad: n. 93 B., 1105 B.; Bengalen: n. 621 B.; Cultuurvlakte: n. 56; locality unknown: n. 138 G., 172 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1300 B.; Ladder: n. 216; Bottom: n. 57; locality unknown: n. 247 L.

St. Martin: along roads near Filipsburg: n. 2529 B.

St. Croix ex Millspaugh.

Antill. to Brazil. Afr. and Asia trop. (Gris. Fl.)

7268. **Leucas** R. Br.

Leucas martinicensis R. Br. Prodr. (1810) 504; Gris. Fl. 491; Duss 459; Millspaugh 525.

Saba: Bottom: n. 61.

St. Martin: from Filipsburg to Guanabay: n. 2342 B.

St. Croix ex Millspaugh.

Antill., Haiti to Brazil., Afr. trop. to the Cape and East Indies. (Gris. Fl.).

7373. **Leonurus** Linn.

Leonurus sibiricus Linn. Spec. (1753) 584; Gris. Fl. 525; Duss 459; Millspaugh 525.

St. Eustatius: in a garden in Oranjestad: n. 94 B.; along roads near Glassbottle: n. 865 B.; n. 865 B.; seashore: n. 58; locality unknown: n. 136 G., 194 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1312 B.; Ladder: n. 60.

St. Martin: from Filipsburg to Belvedere: n. 2587 B.; Mount Paradis 300—400 M.: n. 3238 B.; Prince quarter: n. 214.

St. Croix ex Millspaugh.

Europa and Siberia and naturalised in many other countries. (Hemsley 1884).

7290. **Salvia** Linn.

Salvia occidentalis Sw. Prod. Veg. Ind. Occ. (1788) 14; Gris. Fl. 490; Duss 458; Millspaugh 526. Rabbit meat.

St. Eustatius: along roads in Oranjestad: n. 536 B.; Cultuurvlakte: n. 74, 75, 78; Quill: n. 76, 77; Oranjestad: n. 72, 73; locality unknown: n. 292 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1313 B.; between Bottom and Marypoint 300 M.: n. 1480 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2065 B.; Peperpot: n. 80; Crespeen—Rendez-vous 400 M.: n. 79; locality unknown: n. 35 L.

St. Martin: I saw Salvia occidentalis: hill between Mont des Accords and Centryhill; Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Bermud., Florida, Antill., and Mexico to Peru. (Hemsley 1884).

Salvia serotina Linn. Mant. I (1767) 25; Gris. Fl. 490; Millspaugh 526. Cat nip.

St. Eustatius: in a garden in Oranjestad: n. 95 B.; Cultuurvlakte n. 81; locality unknown: n. 33 H., 37 G.; along roads near Glassbottle: n. 868 B.

Saba: Seaside of Tentguthill 100 M.: n. 1652 B.; Springbaygut: n. 2103 B.; Bottom: n. 2257 B.; Greathill: n. 83; locality unknown: n. 35 L., 320 L.

St. Martin: along roads to Fort Willem: n. 2526 B.; Simsonsbayvillage: n. 2838 B.; near Fort Amsterdam: n. 84; Prince quarter: n. 82;

I also saw Salvia serotina: on a hill between Mont des Accords and Centryhill.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida austr. and throughout the West Indies. (Hemsley 1884).

7342. **Hyptis** Jacq.

Hyptis pectinata Poit. in Ann. Mus. Par. VII (1806) 474 t. 30; Gris. Fl. 489; Duss 457.

Mesosphaerum pectinatum O. Ktze. Rév. Gen. (1891); Millspaugh 525. Holly stalk.

St. Eustatius: Bengalen: n. 628 B.: Cultuurvlakte: n. 42; slope of the Quill: n. 43, 2010; locality unknown: n. 241 H.

Saba: between Bottom and Marypoint 300 M.: n. 1481 B., 100—200 M.: n. 1536 B.; St. Giles: n. 1858 B.; gut between Hellsgate and Masticgut 300—400 M.: n. 2052 B; Ladder n. 44; Gainbygut: n. 45.

I also saw Hyptis pectinata at Flat Point.

St. Martin: from Filipsburg to Belvedere: n. 2603 B.; hills on the northern side of Cul de Sac 0—100 M.: n. 2980 B.; between Belvedere and Oysterpond: n. 3088 B.; locality unknown: n. 3599 B.

St. Croix ex Millspaugh.

From Mexico to Brazil., and in the Old world. (E. a. P.).

7355. **Coleus** Lour.

Coleus amboinicus Lour. Fl. Cochinch. II (1790) 372; Gris. Fl. 487; Duss 455; Millspaugh 525.

Coleus aromaticus Benth. in Wall. Pl. As. Rar. II (1832) 16. Stinging thyme.

St. Eustatius: on the road along the lower part of Signalhill: n. 119 B., 1133 B., 37; Cultuurvlakte: n. 38.

Saba: lower part of the Bottom Mountain 250 M.: n. 1392 B.; Laddergut 200 M.: n. 1994 B.; Peperpot: n. 39; Bottom: n. 2009; locality unknown: n. 286 L.

St. Martin: along roads near Colebayhill: n. 3042 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Indig. in the East Indies. (Gris. Fl.).

Coleus scutellarioides Benth. in Wall. Pl. As. Rar. II (1832) 16.

Cultivated. [Malaya, Australia]. (Ind. Kew.).

7366. **Ocimum** Linn.

Ocimum basilicum Linn. Spec. (1753) 597. Basil.
Cultivated. [Asia occid. and trop.] (Ind. Kew.).

Ocimum gratissimum Linn. Spec. (1753) 597.
Cultivated [India orient.] (Ind. Kew.).

Ocimum micranthum Willd. Enum. Hort. Berol. (1813) 630; Gris. Fl. 487; Duss 454; Millspaugh 525. Mosquito basil.

St. Eustatius: White Wall: n. 805 B.; slope of the Quill 200 M.: n. 877 B.; in a garden in Oranjestad: n. 1271 B.; slope of the Quill: n. 62; locality unknown: n. 63, 64, 131 G., 233 G., 233*a* G., 296 H.

Saba: Laddergut 0—200 M.: n. 2016 B.; Bottom: n. 2254 B.; locality unknown: n. 327 L.

St. Martin: Cul de Sac: 2613 B.; Nakedboyhill 50—200 M., n. 2701 B.; Marigotroad near Marigot: n. 2816 B.; near Colebayhill: n. 66; Marigotroad: n. 65.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Brazil. (Gris. Fl.).

256. Solanaceae.

7379. **Lycium** Linn.

Lycium americanum Jacq. Stirp. Am. (1763) 50.

St. Martin: Guanabay: n. 2430 B., 2438 B.; near Fort Willem: n. 2790 B.; near Fort Amsterdam: n. 105, 106.

Anguilla Boldingh.

Hispaniola, Cuba, St. Domingo. (Herb. Krug et Urban).

7381. **Acnistus** Schott.

Acnistus arborescens Schlecht. in Linnaea VII (1832) 67; Gris. Fl. 435; Duss 410.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1297 B.; Rendez-vous 400 M.: n. 107, 108.

Antill., Mexico, Venezuela, Nova Granata, Brazil., Peru. (Gris. Fl.).

7401. **Physalis** Linn.

Physalis angulata Linn. Spec. (1753) 183; Gris. Fl. 436; Duss 411; Millspaugh 527.

St. Eustatius: Slope of the Quill: n. 206, 207.

St. Martin: near Bethlehem: n. 2659 B.; between Belvedere and Oysterpond: n. 3065 B.

St. Croix ex Millspaugh.

Antill., from U. S. A. to Brazil., East Indies. (Gris. Fl.).

Physalis pubescens Linn. Spec. (1753) 183; Gris. Fl. 435; Millspaugh 527.

Saba: Bottom: n. 205; from Windwardside to Bottom: n. 2058*a* B.; gut near Bottom: n. 1430*a* B.

St. Martin: Marigotroad: n. 208.

St. Croix ex Millspaugh.

Amer. (natural. in other trop. countries). (Gris. Fl.).

7404. **Capsicum** Linn.

Capsicum ceratocarpum Fing. Monogr. (1832) 22.

Cultivated. (Patria ignot.).

Capsicum dulce Hort. ex Dun. in DC. Prod. XIII. I (1852) 428. Birdpepper.

Cultivated. [Trop countries]. (Ind. Kew.).

Capsicum frutescens Linn. Spec. (1753) 189; Gris. Fl. 436; Duss 411; Millspaugh 526.

St. Eustatius: Locality unknown: n. 51 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1336 B.; locality unknown: n. 7 L., 8 L.

St. Martin: lower part of the Milldrumhill: n. 3158 B.; Mount Paradis 300—400 M.: n. 3217 B.

St. Croix ex Millspaugh.

Trop. countries. (Gris. Fl.). Also cultivated.

7407. **Solanum** Linn.

Solanum aculeatissimum Jacq. Coll. I (1786) 100; Gris. Fl. 442; Millspaugh 527.

St. Eustatius: Locality unknown: n. 190 H., 263 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1309 B.; Bottom: n. 1855 B., 209; Windwardside: n. 1923 B.; locality unknown: n. 244 L.

St. Croix ex Millspaugh.

Widely spread in Amer. trop. and subtrop. (Hemsley 1884).

Solanum lanceaefolium Jacq. Coll. II (1788) 286; Gris. Fl. 440; Duss 414.

St. Eustatius: Top of the Quill 400 M.: n. 227 B., 268 B., 295 B.; slope of the Quill: n. 470*a* B.; top of the Quill 300 M.: n. 882 B.; Quill: n. 216.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1316 B., 1296 B.; Springbaygut: n. 2093 B.; Hellsgategut: n. 215; Crespeen—Rendez-vous: n. 129; Hellsgate: n. 218.

St. Martin: Mount Paradis 300—400: n. 3216 B.

Antill., Venezuela. (Gris. Fl.).

Solanum lycopersicum Linn. Spec. (1753) 185.

Lycopersicum esculentum Mill. Gard. Dict. ed. VIII (1768) n. 2; Gris. Fl. 436; Duss 412; Millspaugh 527. Tomate.

St. Eustatius: Seashore: n. 196; in a garden in Oranjestad: n. 96 H., 143 G., 227 H., 230 G.

Saba: Locality unknown: n. 145 L.

St. Croix ex Millspaugh.

Indig. in Amer. austral. (E. a. P.). Also cultivated.

Solanum Melongena Linn. Spec. (1753) 186. Boulanger.

Cultivated. (Patria ignota).

Solanum nigrum var. **nodiflorum.** Linn. Spec. (1753) 186.

Solanum nodiflorum Dunal Hist. Sol. (1813) 151; non Jacq.; Gris. Fl. 437; Duss 412.

Solanum nigrum nodiflorum A. Gray; Millspaugh 527. Wild pepper.

St. Eustatius: in a garden in Oranjestad: n. 81 B.; along roads in Oranjestad: n. 1078 B.; slope of the Quill near Glassbottle: n. 1202 B.; Cultuurvlakte: n. 75; slope of the Quill: n. 219; near Roundhill: n. 220; locality unknown: n. 282 G.

Saba: lower part of the Bottom Mountain 250 M.: n. 1400*a* B.; Mountain 600 M.: n. 1779 B.; Windwardside: n. 1904 B.; Laddergut 0—200 M.: n. 1957 B.; Bottom: n. 2247 B.; Crespeen—Rendez-vous 400 M.: n. 222; locality unknown: n. 251 L.

St. Martin: Marigotroad near Marigot: n. 2804 B; hill on the northern side of Cul de Sac 0—100 M.: n. 2979 B., 2983 B., 2983 B.; Marigotroad: n. 76.

St. Croix ex Millspaugh.

All trop. countries. (Gris. Fl.).

Solanum racemosum Jacq. Enum. Pl. Carib. (1760) 15; Gris. Fl. 439; Duss 414; Millspaugh 527. Canckerberry.

St. Eustatius: Seashore near Oranjestad: n. 11 B.; slope of the lower part of Signalhill: n. 98 B., 113 B.; along roads in Oranjestad: n. 556 B.; in deserted plantations at the seashore near Bengalen: n. 586 B., 593 B.; Bengalen: n. 608 B.; Fort de Wind: n. 797 B.; hill near Concordia 100 M.: n. 955*a* B.; from Little Moun-

tain to Venusbay: n. 987 B.; Signalhill 150 M.: n. 1043 B.; slope of the Quill on the side of White Wall 200 M.: n. 1180 B.; Venusbay: n. 223.

Saba: Seashore near Forthbaylanding: n. 1650 B.: Springbaygut: n. 2084 B.

St. Martin: Guanabay: n. 2424 B.; along the saltpond near Filipsburg: n. 2452 B.; lowerpart of Milldrumhill: n. 3160 B; Mount Paradis 300—400 M.: n. 3210 B.

St. Croix ex Millspaugh.

Antill. (Gris. Fl.).

Solanum racemosum Jacq. var **igneum** (Linn.) O. E. Schulz.[1])

Solanum igneum Linn. Spec. (1762) 270; Gris. Fl. 440; Millspaugh 527.

St. Eustatius: Seashore near Oranjestad: n. 35 B., 46 B.; along roads in Oranjestad: n. 566 B., 573 B., 926 B.; in deserted plantations at the seashore near Bengalen: n. 588 B.; top of the Cliff between Fort de Wind and Oranjestad: n. 774 B.; gut near Fort de Wind: n. 833 B.; Cultuurvlakte: n. 213; slope of Signalhill: n. 114; seashore: n. 211, 212; locality unknown: n. 46 G., 47 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1468 B.; Bottom: n. 1838 B.; Ladder: n. 214; locality unknown: n. 141 L., 362 L.

St. Martin: near Filipsburg: n. 2337 B.; along the saltpond near Filipsburg: n. 2442 B.; near Bethlehem: n. 2667 B.; near Mulletpond: n. 2787 B.; in pastureground near Bellevue: n. 2821 B.; lower part of the hills between Mont Chambord and Mount Vernon: n. 2958 B.; along roads from Colebay to Simsonsbay: n. 3251 B.; gut from Bethlehem to Cul de Sac 200 M.: n. 3428 B., 3430 B.; Cul de Sac: n. 210.

St. Croix ex Millspaugh.

Antill., Cuba to Guiana. (Gris. Fl.).

Solanum torvum Sw. Prod. Veg. Ind. Occ. (1788) 47; Gris. Fl. 441; Duss 415; Millspaugh 527.

St. Eustatius: Slope of the Quill: n. 226.

Saba: lower part of the Bottom Mountain: n. 1402 B.; between Bottom and Marypoint 100—200 M.: n. 1533 B.; Windwardside—Hellsgate: n. 1678 B.; Laddergut 0—200 M.: n. 1959 B., 224.

St. Martin: Cul de Sac: n. 2618 B.; along roads from Bethle-

[1]) Det. O. E. Schulz.

hem to Mont Chambord: n. 2909 B.; hills on the eastern side of Cul de Sac: n. 3448 B.; Prince quarter: n. 225.

St. Croix ex Millspaugh.

Bermud., Antill., Cuba and Mexico to Brazil and Equador. East Indies. (Gris. Fl.).

Solanum tuberosum Linn. Spec. (1753) 185. Potatoes.

Cultivated. [Amer. austr.] (E. a. P.).

7415. **Datura** Linn.

Datura fastuosa Linn. Syst. ed. X (1799) 932; Gris. Fl. 434; Duss 409; Millspaugh 526. Fire weed.

Saba: Crispeen 400 M.: n. 1766 B.; locality unknown: n. 260 L.

St. Martin: near Bethlehem: n. 2660 B.

St. Croix ex Millspaugh.

Antill., Afr. trop., East Indies. (Gris. Fl.).

Datura Metel Linn. Spec. (1753) 179; Gris. Fl. 434; Duss 408; Millspaugh 526. Fire weed.

St. Eustatius: along roads near Oranjestad: n. 563 B.; in a garden in Oranjestad: n. 1015 B., 1081 B., 190, 12 H., 13 G.

St. Martin: along roads near Filipsburg: n. 2527 B.; Guanabay: n. 189.

St. Croix ex Millspaugh.

Antill., Haiti and Mexico to Brazil and in the Old world. (Gris. Fl.).

Datura Stramonium Linn. Spec. (1753) 179; Gris. Fl. 434; Millspaugh 526. Fire weed.

St. Eustatius: in a garden in Oranjestad: n. 542 B.; Cultuurvlakte: n. 194; locality unknown: n. 12 G., 14 G., 13 H., 3592 B.

Saba: Bottom: n. 1991 B., 195; locality unknown: n. 83 L., 260 L.

St. Martin: Mary's Fancy: n. 193.

St. Croix ex Millspaugh.

Europa, Asia, Africa and Amer. sept. (E. a. P.).

7420. **Cestrum** Linn.

Cestrum laurifolium l'Hér. Stirp. Nov. (1784) 69. t. 34; Gris. Fl. 444; Duss 416; Millspaugh 526.

St. Eustatius: Top of the Quill 400 M.: n. 211 B., 239 B., 240 B., 374 B.; Quill: n. 102, 103, 113; Boven: n. 104; locality unknown: n. 3638 B.

Saba: lower part of the Bottom Mountain 300 M.: n. 1442 B.; along roads between Bottom and Windwardside 200 M.: n. 1288 B.; Crispeen 400 M.: n. 1723*a* B.; Springbaygut: n. 2124 B.; Bottom: n. 2252 B.; Paris 300 M.: n. 109; Greathill 2—400 M.: n. 112; Rendez-vous: n. 110; Crispeen—Rendez-vous: n. 111; Rendez-vous Mountain: n. 67; locality unknown: n. 68.

St. Croix ex Millspaugh.

Cuba, Hispaniola, Portorico, St. Thomas, St. Jan, Antigua, Montserrat, Guadeloupe, Dominica, Martinique, Barbados, Trinidad. (Herb. Krug et Urban).

7434. **Nicotiana** Linn.

Nicotiana Tabacum Linn. Spec. (1753) 180.

Cultivated. [Amer. austr.] (E. a. P.).

7436. **Petunia** Juss.

Petunia violacea Lindl. Bot. Reg. t. 1626.

Cultivated. [Argentinia]. (Ind. Kew.).

7450. **Brunfelsia** Linn.

Brunfelsia americana Linn. Spec. (1753) 191. Lady of the night.

Cultivated. [Antill.] (Gris. Fl.).

257. Scrophulariaceae.

7470. **Angelonia** Humb. et Bonpl.

Angelonia angustifolia Benth. in DC. Prodr. X (1846) 254. Snapdragon.

Cultivated. [Mexico]. (Gris. Fl.).

7487. **Maurandia** Ortega.

Maurandia semperflorens Jacq. Hort. Schoenb. III (1800) 20.

Saba: Gut near Bottom: n. 1388 B.

Antill. [Mexico]. (Ind. Kew.).

7496. **Russelia** Jacq.

Russelia juncea Zuccar in Flora XV (1832) II Beibl. 99. Bugal plant.

Cultivated. [Mexico]. (Ind. Kew.).

7574. **Capraria** Linn.

Capraria biflora Linn. Spec. (1753) 628; Gris. Fl. 427; Duss 403; Millspaugh 527. Wild tea.

St. Eustatius: Seashore near Oranjestad: n. 34 B.; in a garden in Oranjestad: n. 70 B.; seashore near Tumbledowndickbay: n. 162 B.; Bengalen: n. 624 B.; along roads in Oranjestad: n. 929 B.; Cultuurvlakte: n. 39; locality unknown: n. 11 G., 11 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1319 B.; between Bottom and Marypoint 100—200 M.: n. 1510 B.; Laddergut 0—200 M.: n. 1953 B., 54; Bottom: n. 55.

St. Martin: from Filipsburg to Guanabay: n. 2348 B.; Filipsburg—Cul de Sac: n. 2611 B.; Mount Paradis 200—400 M.: n. 3202 B.

St. Croix ex Millspaugh.

Bermud., Florida and Mexico to Brazil and Peru. (Hemsley 1884).

7576. **Scoparia** Linn.

Scoparia dulcis Linn. Spec. (1753) 116; Gris. Fl. 427; Duss 403; Millspaugh 528. Sweet broom.

St. Eustatius: along roads near Glassbottle: n. 883 B., 1205 B.; Cultuurvlakte: n. 85; slope of te Quill: n. 86, 87; locality unknown: n. 10 G., 10 H.

Saba: between Bottom and Marypoint 100—200 M.: n. 1523 B.; Ladder: n. 78; Peperpot: n. 79; Mountain: n. 80; Gainbygut: n. 81.

St. Croix ex Millspaugh.

All tropical countries. (Gris. Fl.).

258. Bignoniaceae.

7705. **Bignonia** Linn.

Bignonia Ungius-cati Linn. Spec. (1753) 623; Gris. Fl. 448; Duss 421; Millspaugh 528. Cat claw.

St. Eustatius: Top of the Quill 400 M.: n. 194 B., 281 B., 283 B., 350 B.; Bottom of the Quill 350 M.: n. 454 B.; Red Cliff—Tumbledowndickbay: n. 202; Quill: n. 41, 42, 102; slope of the Quill: n. 196, 197; locality unknown: n. 178 G., 259 H.

I also saw Bignonia Ungius-cati in deserted plantations near Bengalen.

Saba: Boobyhill 300 M.: 1599 B.; Laddergut 0—200 M.: n. 1966 B.; between Hellsgate and Marypoint: n. 2071 B.; pasture-ground: n. 40; Middle Island: n. 149.

St. Martin: Hill on the northern side of Cul de Sac 0—150 M.: n. 2970 B.; gut from Betlehem to Cul de Sac 200 M.: n. 3435 B.; John Ednyhill: n. 198, 199, 200.

I also saw Bignonia Ungius-cati on Mount Paradis 300—400 M.

St. Croix ex Millspaugh.
Antill. (Gris. Fl.); Amer. cont. (Herb. Leiden.).

Bignonia spec. without flowers and fruits.
St. Eustatius: Quill: n. 438*a* B.

7733. **Tecoma** Juss.

Tecoma capensis Lindl. Bot. Reg. t. 1117.
Cultivated. [Afr. austr.] (Ind. Kew.).

Tecoma leucoxylon Mart. ex DC. Prod. IX (1845) 219; Gris. Fl. 447; Duss 420; Millspaugh 528. White ceder.

St. Eustatius: in a garden in Oranjestad: n. 72 B.; slope of the lower part of Signalhill: n. 104 B.; top of the Quill 400 M.: n. 214 B., 331 B., 355 B.; between Oranjestad and Fort de Wind: n. 782 B.; along roads in Oranjestad: n. 919 B.; along roads near English Quarter: n. 1003 B.; slope of the Quill near Glassbottle: n. 1116 B.; slope of the hills near Concordiabay: n. 206; Tumbledowndickbay: n. 216; near Sugarloaf: n. 217; locality unknown: n. 52 H., 109 G.

I also saw Tecoma leucoxylon: on Gilboohill; near Jenkinsbay.

Saba: between Bottom and Marypoint 100—200 M.: n. 1500 B.; Boobyhill: n. 1570 B.; Green Island: n. 2145 B.; Windwardside: n. 2333 B.; locality unknown: n. 284 L.

I also saw Tecoma leucoxylon: Sulphurmines; Bottom—Windwardside; Hellsgate.

St. Martin: Colebay (coll. George): n. 2513 B.; from Filipsburg to Belvedere: n. 2555 B.; Nakedboyhill 50—200 M.: n. 2675 B.

I also saw Tecoma leucoxylon: Marigothill to Marigot; hill between Mont des Accords and Centryhill; hill on the northern side of Cul de Sac: Mount Paradis 300—400 M.: Lowlands.

Anguilla Boldingh.
St. Croix ex Millspaugh.
Baham., Antill., Cuba to Guiana. (Gris. Fl.).

7740. **Stenolobium** D. Don.

Stenolobium stans Seem. Journ. Bot. I (1863) 88.
Tecoma stans Juss. Gen. (1789) 139; Gris. Fl. 477; Duss 420; Millspaugh 529. Yellow blossom.

St. Eustatius: Gut near Fort de Wind 50 M.: n. 834 B.; hill near Concordia 100 M.: n. 956 B.; Cultuurvlakte: n. 209; locality unknown: n. 100 G., 178 H.

I also saw Stenolobium stans: slope of the Cliff; slope of the Quill on the side of White Wall.

Saba: lower part of the Bottom Mountain 800 M.: n. 1440 B.; Laddergut 200 M.: n. 1998 B., 211; locality unknown: n. 134 L.

I also saw Stenolobium stans; between Bottom and Marypoint; Forthbaygut; Bottom—Windwardside.

St. Martin: Mount Paradis 300—400 M.: n. 3323 B.; Cul de Sac: n. 210.

I also saw Stenolobium stans: on Marigothill—Marigot; Nakedboyhill; hill between Mont des Accords and Centryhill; hill on the northern side of Cul de Sac; along roads near Grande Case; lower part of Milldrumhill.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Tucuman. (Gris. Fl.).

7759. **Crescentia** Linn.

Crescentia Cujete Linn. Spec. (1753) 626; Gris. Fl. 445; Duss 418; Millspaugh 528. Calabash.

St. Eustatius: in a garden in Oranjestad: n. 149 G., 255 H.

I saw Crescentia Cujete in deserted plantations near English Quarter.

Saba: Windwardside: n. 1920 B.; locality unknown: n. 65 L.

St. Martin: from Filipsburg to Belvedere: n. 2554 B.; Mount Paradis 300—400 M.: n. 3338 B.

I also saw Crescentia Cujete: near Saline.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill. and Amer. austr. (E. a. P.).

262. Gesneriaceae.

7839. **Besleria** Linn.

Besleria lutea Linn. Spec. (1753) 619; Gris. Fl. 463; Duss 431.

St. Eustatius: Top of the Quill 500 M.: n. 471*a* B., 479*a* B.

Saba: Gut near Bottom: n. 1424*a* B.; Mountain 600 M.: n. 1782 B., 41, 42, 43, 208.

Jamaica, Guadeloupe, Dominica, Martinique, St. Lucia, St. Vincent, Grenada. (Symb.).

7880. **Kohleria** Regel.

Kohleria hirsuta Reg. in Regensb. Flor. XXXI (1848) 250.

Isoloma hirsuta Reg. in Bot. Zeit. IX (1851) 583; Gris. Fl. 459.

Saba: Locality unknown: n. 60 L., 331 L.
Cultivated?
Trinidad, Venezuela. (Symb.).

7891. **Gesneria** Linn.

Gesneria ventricosa Sw. Prod. Veg. Ind. Occ. (1788) 89.
Pentarhaphia longiflora Lindl. Bot. Reg. sub. t. 1110; Gris. Fl. 460; Duss 430.
St. Eustatius: Top of the Quill 400 M.: n. 471 B.; top of the Quill 500 M.: n. 479 B.; top of the Quill: n. 325, 326, 327, 328.
Saba: Mountain 600 M.: n. 1758 B., 1783 B., 332, 333.
Jamaica, St. Kitts, Montserrat, Guadeloupe, Dominica, Martinique, St. Lucia, St. Vincent. (Symb.).

264. Lentibulariaceae.

7901. **Utricularia** Linn.

Utricularia alpina Jacq. Enum. Pl. Carib. (1760) 11.
Utricularia montana Jacq. Select. Am. (1763) 7 t. 6: Gris. Fl. 390.
Saba: Mountain 800 M.: n. 2229 B.
Antill. and Amer. austral. (E. a. P.).

266. Acanthaceae.

7914. **Thunbergia** Retz.

Thunbergia affinis Moore var. **pulvinatus** Moore in Journ. Bot. XVIII (1880) 431.
Cultivated. [Africa]. (Herb. Berlin).

Thunbergia alata Boj. in Hook. Exot. Fl. 1823 t. 17; Duss 428.
Saba: along roads between Bottom and Windwardside 200 M.: n. 1311 B.; between Bottom and Marypoint 100—200 M.: n. 1548 B.; locality unknown: n. 1593 B., 36 L., 10; Village: n. 283.
St. Croix. (Symb.).
Indig., in Africa orient. (Symb.).

Thunbergia fragans Roxb. Pl. Corom. I (1795) 47 t. 67; Gris. Fl. 458; Duss 428; Millspaugh 530.
St. Eustatius: along roads in Oranjestad: n. 1092 B., 183 H.
Saba: Bottom: n. 284; locality unknown: n. 17 L.
St. Martin: along roads from Grande Case to Marigot: n. 3102 B.

St. Croix ex Millspaugh.
Indig. in Asia trop. (Symb.).

7919. **Sanchezia** R. et Pav.

Sanchezia nobilis Hook. Bot. Mag. t. 5594.
Cultivated. [Equador]. (Ind. Kew.).

7930. **Blechum** Juss.

Blechum Brownei Juss. in Ann. Mus. Par. IX (1807) 270; Gris. Fl. 453; Duss 424.

Blechum Blechum Millspaugh 529.

St. Eustatius: Locality unknown: n. 304 H.; slope of the Quill: n. 258.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1295 B.: between Bottom and Marypoint 100—200 M.: n. 1507 B.: Mountain 600 M.: n. 1744 B.; Bottom: n. 1847 B., 1984 B.; Ladder: n. 260; Laddergut: n. 260 bis; locality unknown: n. 316 L.

St. Martin: Cul de Sac—Marigothill 0—200 M.: n. 2626 B.; in an orchard near Bellevue: n. 2846 B.

St. Croix ex Millspaugh.
Amer. trop. (Symb.).

7965. **Ruellia** Linn.

Ruellia tuberosa Linn. Spec. (1753) 635; Gris. Fl. 452; Duss 423; Millspaugh 529. Devil's bit, Fever root.

St. Eustatius: along roads near Glassbottle: n. 862 B.: Cultuurvlakte: n. 272; Concordia: n. 274; locality unknown: n. 83 H., 129 G.

I also saw Ruellia tuberosa on Signalhill.

Saba: between Bottom and Marypoint 100—200 M.: n. 1512 B.; Hellsgate: n. 1697 B.; locality unknown: n. 297 L.; Bottom: n. 273.

I also saw Ruellia tuberosa in the Laddergut.

St. Martin: from Filipsburg to Guanabay: n. 2375 B: from Filipsburg to Belvedere: n. 2553 B.; along roads near Bethlehem: n. 2934 B.; Centryhill: n. 12.

I also saw Ruellia tuberosa: on Nakedboyhill; hill between Mont des Accords and Centryhill; in pastureground near Belvedere: in pastureground near Bellevue: Lowlands.

St. Croix ex Millspaugh.

Antill., from Guiana, Venezuela, Peru and Columbia to Mexico. (Symb.).

7990. **Stenandrium** Nees.

Stenandrium rupestre Nees. in DC. Prodr. XI. (1847) 283.

St. Martin: in an orchard near Bellevue: n. 2835 B.; lower part of the hills on the eastern side of Cul de Sac: n. 3442 B.

I also saw Stenandrium rupestre on the hill between Mont des Accords and Centryhill.

Baham., Antill. (Symb.).

8012. **Graptophyllum** Nees.

Graptophyllum pictum Griff. Notul. IV. (1851) 139.

Cultivated. [Nova Guinea]. (Symb.).

8094. **Justicia** Linn.

Justicia sessilis Jacq. Enum. (1760) 11.

Dianthera sessilis Gris. Flor. W. I. (1861) 455; Duss 426. Prickly balsam.

St. Eustatius: Slope of the lower part of Signalhill: n. 99 B.; lower part of the hills near Concordia: n. 977 B.; near Maryglory 150 M.: n. 1150 B.; near Boven 200 M.; n. 1246 B.; Cultuurvlakte: n. 13, 262, 263, 264; slope of the Quill: n. 265, 266; locality unknown: n. 74 H., 111 G., 141 G.

Saba: Windwardside—Hellsgate: n. 1667 B.; Laddergut 200 M.: n. 2004 B.; Paris: n. 267;

St. Martin: along roads near Bellevue: n. 2842 B.; Mountain between Mont des Accords and Centryhill 0—200 M.: n. 2866 B.; from Belvedere to Oysterpond: n. 3057 B.

I also saw Justicia sessilis: on the lower part of the Milldrumhill; Mount Paradis.

St. Croix. (Symb.).

Hispaniola, Portorico, St. Thomas, Antigua, Guadeloupe. (Symb.).

8098. **Beloperone** Nees.

Beloperone eustachiana Benth. in Benth. et Hook. Gen. Pl. II (1876) 1111.

Justicia eustachiana Jacq. Enum (1760) 11; Gris. Fl. 456; Duss 426.

St. Eustatius: Slope of the Quill near Bengalen 200 M.: n. 752 B.; top of Signalhill 225 M.: n. 1033 B.; near Maryglory 150 M.: n. 1138 B., 1149 B.; locality unknown: n. 166 G., 248 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1286 B.; Windwardside—Hellsgate: n. 1684 B.; Paris 2—400 M.: n. 256; Greathill: n. 255; Rendez-vous 400 M.: n. 257; Bottom: n. 1; locality unknown: n. 24 L.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2860 B.; along roads from Colebay to Simsonsbay: n. 3248 B.; Green Key: n. 3366 B.

St. Barthélemy, Antigua, Montserrat, Guadeloupe. (Symb.).

267. Myoporaceae.

8111. **Bontia** Linn.

Bontia daphnoides Linn. Spec. (1753) 638.

Cultivated. [Antill.] (E. a. P.).

269. Plantaginaceae.

8116. **Plantago** Linn.

Plantago major Linn. Spec. (1753) 112; Gris. Fl. 389; Duss 379; Millspaugh 530.

Saba: Boobyhill: n. 1566 B.; Windwardside: n. 2327 B.; locality unknown: n. 178 L.

St. Croix ex Millspaugh.

In almost all parts of both hemisph. (E. a. P.).

270. Rubiaceae.

8136. **Oldenlandia** Linn.

Oldenlandia herbacea DC. Prod. IV. (1830) 425; Gris. Fl. 330; Duss 335; Millspauch 531.

St. Martin: from Filipsburg to Belvedere: n. 2580 B.; along roads from Grande Case to Marigot: n. 3104 B.

St. Croix ex Millspaugh.

Amer. trop., Afric., Asia, Malay, Kaiser Wilhelmsland. (E. a. P.).

8208. **Hillia** Jacq.

Hillia longiflora Sw. Prod. Veg. Ind. Occ. (1788) 58; Gris. Fl. 325; Duss 334.

Hillia parasitica Jacq. Enum. Pl. Carib. (1760) 18.

St. Eustatius: Top of the Quill: n. 247 B., 68, 69, 70.

Saba: Mountain 800 M.: n. 2192 B., 2198 B.; locality unknown: n. 127 L.

Antill., Amer. austral. (E. a. P.).

8219. **Exostemma** L. C. Rich.

Exostemma caribaeum Roem. et Schult. Syst. V (1819) 18; Gris. Fl. 324; Duss 333; Millspaugh 531.

St. Martin: Colebay (coll. George): n. 2500 B.; Nakedboyhill 200—260 M.: n. 2726 B.; near Mulletpond: n. 2783 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2891 B.; from Belvedere to Oysterpond: n. 3045 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill. (Herb. Krug er Urban); Key West (Melvill.); Baham. (Hitchc.).

Exostemma spec.

Saba: locality unknown: n. 107 L.

8238. **Mussaenda** Linn.

Mussaenda frondosa Linn. Spec. (1753) 177.

Cultivated. [India orient.] (Ind. Kew.).

8239. **Gonzalagunia** Ruiz. et Pav.

Gonzalagunia hirsuta Schumann. in Mart. Fl. Bras. VI 6 (1889) 291.

Gonzalea spicata DC. Prodr. IV (1830) 437; Gris. Fl. 321; Duss 332.

Saba: between Bottom and Marypoint 350 M.: n. 1493 B., 1552 B.; Mountain near Hellsgate: n. 2284 B.; Mountain: n. 171, 172; Devilshand: n. 173.

Antill., Guiana, Bahia. (Gris. Fl.).

8283. **Randia** Linn.

Randia aculeata Linn. Spec. (1753) 1192; Gris. Fl. 318; Duss 330; Millspaugh 531. Fishing rod, Black cherry.

St. Eustatius: Slope of the lower part of Signalhill: n. 100 B.; top of the Quill 400 M.: n. 280 B.; slope of the lower part of the Quill near Bengalen: n. 712 B.; between Oranjestad and Fort de Wind on the top of the Cliff: n. 790 B.; slope of Signalhill: n. 125. 182; Quill: n. 181; White Wall: n. 127; Little Mountain: n. 126; Gilboohill: n. 124; locality unknown: n. 176 G., 195 H.

I also saw Randia aculeata: on the slope of the Quill on the side of White Wall; Tumbledowndickbay—Venusbay.

Saba: between Bottom and Marypoint 100—200 M.: n. 1519 B.; Saddle: n. 1658 B.; Hellsgate: n. 120; locality unknown: n. 123.

St. Martin: from Filipsburg to Guanabay: n. 2416 B.; Prince quarter (coll. George): n. 2474 B.; near Fort Willem: n. 2798 B.; top of the hill on the northern side of Cul de Sac 200—300 M.: n. 2991 B.; Milldrumhill 300—400 M.: n. 3140 B.; Vineyardhill: n. 121, 122.

I also saw Randia aculeata: Marigotthill—Marigot; top of Nakedboyhill; near Bellevue; hill between Mont des Accords and Centryhill; along roads near Grande Case; Mount Paradis 300—400 M.; Lowlands.

St. Croix ex Millspaugh.

Bermud., Florida, Antill. (Hemsley 1884).

8361. **Guettarda** Linn.

Guettarda parvifolia Sw. Fl. Ind. Occ. III (1806) 1958; Gris. Fl. 333; Duss 337; Millspaugh 531. Wild cherry.

St. Eustatius: from Little Mountain to Venusbay: n. 961 B.; slope of the Quill on the side of White Wall 200 M.: n. 1181 B.

Saba: between Bottom and Marypoint 100—200 M.: n. 1464 B.; Springbaygut: n. 2079 B.

St. Martin: from Filipsburg to Belvedere: n. 2571 B.; Nakedboyhill 280 M.: n. 2737 B.; mountain between Mont des Accords and Centryhill 200—300 M.: n. 2887 B.; lower part of the mountains between Mount Vernon and Mont Chambord: n. 2950 B.; Milldrumhill 200—300 M.: n. 3122 B.; hills on the eastern side of Cul de Sac: n. 3438 B.

St. Croix ex Millspaugh.

Antill., Venezuela. (Gris. Fl.).

Guettarda scabra Lam. Tabl. Encycl. II (1793) 218. t. 154 f. 3; Gris. Fl. 332; Duss 337; Millspaugh 531. Candle wood, Wild guave.

St. Eustatius: Top of the Quill 380 M.: n. 255 B., 319 B., 502 B.; from Little Mountain to Venusbay: n. 993 B.; Signalhill: n. 76; Quill: n. 78.

I also saw Guettarda scabra on the slope of the Quill on the side of White Wall.

Saba: between Bottom and Marypoint 100—200 M.: n. 1463 B.; Greathill: n. 75 A.; Hellsgate: n. 75; locality unknown: n. 77.

I also saw Guettarda scabra: in the gut between Hellsgate and Masticgut; Crespeenhill.

St. Martin: Mount Paradis 300—400 M.: n. 3224*a* B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill., Yucatan, Brazil. (Gris. Fl.).

8371. **Erithalis** Linn.

Erithalis fruticosa Linn. Syst. ed. X (1759) 930; Gris. Fl. 336; Duss 338; Millspaugh 530. Flambeau.

St. Eustatius: from Little Mountain to Venusbay: n. 973 B.; top of Signalhill 225 M.: n. 1032 B.; White Rock: n. 87; slope of the Quill near White Wall: n. 86; White Wall: n. 83, 151; Sugarloaf: n. 152; Boven: n. 84; Oranjestad n. 85.

St. Martin: Colebay (coll. George): n. 2499 B.; near Mulletpond: n. 2752 B.; from Belvedere to Oysterpond: n. 3047 B.; Tintamarre: n. 3390 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill. (Herb. Krug et Urban); Key West (Melvill.); Baham. (Hitchc.)

8376. **Chiococca** Linn.

Chiococca racemosa Jacq. Select. Am. (1763) 68; Gris. Fl. 336; Duss 339; Millspaugh 530. Buckroot.

St. Eustatius: Top of the Quill 400 M.: n. 199 B., 336 B., 400 B.: slope of the Quill near Bengalen 200 M.: n. 688 B.; from Little Mountain to Venusbay: n. 972 B.; slope of the Quill on the side of White Wall 200 M.: n. 1170 B.; top of the Quill: n. 141, 142, 143, 152; Quill: n. 156; locality unknown: n. 157, 187 G., 271 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1355 B.; Greathill 400 M.: n. 1385 B.; between Bottom and Marypoint 350 M.: n. 1497 B.; Boobyhill 300 M.: n. 1574 B.; Hellsgate—Marypoint: n. 2038 B.; Springbaygut: n. 2081 B., 2082 B.; Paris: n. 154, 155, 159; Rendez-vous: n. 158; Middle Island: n. 153; Wellgut: n. 151; locality unknown: n. 137 L., 309 L.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2637 B.; mountain between Mont des Accords and Centryhill 200—300 M.: n. 2879 B.; top of the hills on the northern side of Cul de Sac 200—

300 M.: n. 3009 B.; from Belvedere to Oysterpond: n. 3060 B.; Milldrumhill 200—300 M: n. 3123 B.; 300—400 M.: n. 3153 B.; Mount Paradis 300—400 M.: n. 3225 B.; 100—200 M.: n. 3298 B.; gut from Bethlehem to Cul de Sac 200 M.: n. 3429 B.

St. Croix ex Millspaugh.

Antill., Mexico, Amer. austr. (E. a. P.).

8381. **Coffea** Linn.

Coffea arabica Linn. Spec. (1753) 172; Gris. Fl. 338; Duss 341. Coffee.

St. Eustatius: Bottom of the Quill 300 M.: n. 900 B.; inner slope of the Quill 350 M.: n. 1220 B., 101 H., 215 G.

Saba: Windwardside: n. 1935 B.; Gainbygut: n. 98; Hellsgategut: n. 99.

Indig. in Abyssinia, Angola and Mosambique. (E. a. P.).

8384. **Ixora** Linn.

Ixora coccinea Linn. Spec. (1753) 110.

Cultivated. [Asia trop.] (Ind. Kew.).

Ixora Jucunda Twaithes Enum. Pl. Zeyl. (1864) 155. Riceplant.

Cultivated. [Zeylan.] (Ind. Kew.).

8391. **Strumpfia** Jacq.

Strumpfia maritima Jacq. Enum. Pl. Carib. (1760) 28; Gris. Fl. 336; Duss 338.

St. Eustatius: White Wall: n. 813 B., 1264 B., 138.

St. Martin: Colebay (coll. George): n. 2519 B.

Anguilla Boldingh.

Baham., Antill., Aruba, Bonaire, Curaçao. (Herb. Krug et Urban).

8399. **Psychotria** Linn.

Psychotria horizontalis Sw. Prod. Veg. Ind. Occ. (1788) 144; Gris. Fl. 344; Duss 344; Millspaugh 531.

St. Eustatius: Slope of the Quill near Bengalen 50—200 M.: n. 609*a* B., 657 B.; slope of the Quill above White Wall: n. 1191*a* B.; locality unknown: n. 218 G.

Saba: near the Sulphurmines: n. 1701*a* B.; near Devilshand: n. 2075 B., 2076 B.; Springbaygut: n. 2123 B.

St. Martin: from Filipsburg to Belvedere: n. 2575 B., 2586 B.; Marigothill—Marigot 0—200 M.: n. 2642 B.; Nakedboyhill 50—200 M.: n. 2689 B.; mountain between Mont des Accords and Centryhill

200—300 M.: n. 2883 B.; along roads in Cul de Sac: n. 2968 B.; from Belvedere to Oysterpond: n. 3063 B.; lower part of Milldrumhill: 3161 B.; along roads from Colebay to Simsonsbay: n. 3252 B.: Mount Paradis 100—200 M.: n. 3300 B.; French frontier: n. 149.

St. Croix ex Millspaugh.

Antill., Guiana. (Gris. Fl.).

Psychotria pendula Urb. Symb. Ant. I (1900) 445.

Psychotria parasitica Sw. Prodr. (1788) 44; Gris. Fl. 344 (p. p.); Duss 344.

Mapouria parasitica K. Sch. in Engl. u. Prantl. Nat. Pfl. Fam. IV. 4. (1891) 112.

Psychotria crassa Gris. Flor. W. I. (1861) 344 (p. p.); Duss 344. (Symb.).

Saba: Mountain 800 M.: n. 148, 153.

Cuba, St. Kitts, Montserrat, Guadeloupe, Dominica, Martinique, St. Vincent, Grenada. (Symb.).

Psychotria rufescens H. B. et K. Nov. Gen. et Sp. III (1818) 364; Gris. Fl. 342. Bastard canckerberry.

St. Eustatius: Top of the Quill 400 M.: n. 174 B., 349 B., 403 B., 500 B., 117; locality unknown: n. 116, 175 G., 213 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1353 B.; Bottom: n. 1456 B.; Crispeen 400 M.: n. 1762 B.; Marypoint: n. 118; Jenkinsbay: n. 114.

St. Martin: Centryhill: n. 115.

Antill., Cuba and Mexico to Nova Granata. (Gris. Fl.).

Psychotria uliginosa Sw. Prod. Veg. Ind. Occ. (1788) 43; Gris. Fl. 340; Duss 342.

St. Eustatius: Bottom of the Quill 300 M.: n. 899 B.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1306*a* B., 1365 B.; Bottom: n. 1448 B.; Mountain: n. 119; Gainbygut: n. 150.

Antill., Amer. centr., Guiana. (Gris. Fl.).

8401. **Palicourea** Aubl.

Palicourea Pavetta DC. Prodr. IV (1830) 525; Gris. Fl. 346; Duss 345; Millspaugh 531.

St. Eustatius: inner slope of the Quill 350 M.: n. 1216 B., 1224 B.; Quill: n. 146, 147.

Saba: along roads from Bottom to Windwardside: n. 1313*a* B., 1364 B.; Mountain: n. 1755*a* B.

St. Croix ex Millspaugh.

Cuba, Jamaica, St. Thomas, Guadeloupe. (Herb. Krug et Urban).

8456. **Faramea** Aubl.

Faramea odoratissima DC. Prod. IV (1830) 496; Gris. Fl. 338; Duss 341; Millspaugh 531.

Saba: from Marypoint to Bottom 300 M.: n. 2071*a* B.

Antill., Mexico. (E. a. P.).

8468. **Ernodea** Swartz.

Ernodea litoralis Sw. Prod. Veg. Ind. Occ. (1788) 29; Gris. Fl. 347; Duss 347; Millspaugh 530.

St. Eustatius: White Wall: n. 806 B., 1263 B.; White rock: n. 96; locality unknown: n. 97.

Saba: Hellsgate—Marypoint: n. 2037 B.

St. Martin: near Mulletpond: n. 2759 B.; Lowlands: n. 3279 B.; near Orientbay: n. 3357 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Baham., Antill. (Gris. Fl.).

8471. **Diodia** Linn.

Diodia rigida Cham. Schlecht. in Linnaea III (1828) 341; Gris. Fl. 348.

St. Eustatius: Top of the Cliff between Gallowsbay and White Wall: n. 765 B.

Amer. austr. (Ind. Kew.).

8472. **Hemidiodia** K. Schum.

Hemidiodia ocimifolia K. Schum. in Mart. Fl. Bras. IV. 4 (1888) 29.

St. Eustatius: Slope of the Quill near Bengalen 50—200 M.: n. 650 B.; slope of the Quill 200 M.: n. 876 B., 72, 73.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1337 B.; Hellsgate: n. 1691 B.; Mountain 800 M.: n. 1806 B.; Mountain near Windwardside 600 M.: n. 2174 B., 2183 B.; Ladder: n. 74*a*; Gainbygut: n. 74; locality unknown: n. 138 L., 205 L.

St. Martin: Marigothill—Marigot 0—200 M.: n. 2648 B.; hill on the northern side of Cul de Sac: n. 2982 B.

Antill., Mexico. (E. a. P.).

8473. **Borreria** G. F. Mey.

Borreria ocymoides DC. Prodr. IV (1830) 544.

Saba: Hellsgategut: n. 196.

Amer., Africa, Asia. (E. a. P.).

Borreria podocephala DC. Prodr. IV (1830) 542; Gris. Fl. 350; Duss 349.

St. Eustatius; White Wall: n. 815 B., 818*b* B.; near Signalhill: n. 943*a* B., 1039 B.; seashore near English Quarter: n. 1009 B.

Cuba, Pinos, Desirade, Antigua, Guadeloupe. (Herb. Krug et Urban).

8475. **Spermacoce** Gärtn.

Spermacoce tenuior Linn. Spec. (1753) 102; Gris. Fl. 349; Duss 347; Millspaugh 532.

St. Eustatius: Top of the Quill 400 M: n. 230 B.; Bengalen: n. 625 B.; in a garden in Oranjestad: n. 1084 B.; along roads near Glassbottle: n. 1115 B.; slope of the Quill: n. 133 A.; locality unknown: n. 301 G.

Saba: lower part of the Bottom Mountain 300 M.: n. 1428 B.; between Bottom and Marypoint 100—200 M.: n. 1521 B.; along the Forthgut 150—200 M.: n. 1630 B.

St. Martin: Nakedboyhill 50—200 M.: n. 2683 B.; in an orchard near Bellevue: n. 2849 B.; Mount Paradis 300—400 M.: n. 3332 B.; Colebayhill: n. 133.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Amer. centr. (E. a. P.).

8479. **Mitracarpus** Zucc.

Mitracarpus polycladus Urb. in Symbolae Antillanae III (1903) 389.

Saba: along roads from Bottom to Windwardside n. 1322 B.; Paris: n. 1377 B.; Laddergut: n. 1966*a* B., 175; locality unknown: n. 86 L.

Portorico. (Symb.).

Mitracarpus villosus Cham. et Schlecht. in Linnaea III (1828) 363; Gris. Fl. 350.

Mitracarpus hirtus DC. Prod. IV (1830) 572; Duss 349.

St. Eustatius: Slope of the Quill: n. 164; road in Oranjestad: n. 173.

Antill., Cuba and Mexico to Equador and Venezuela. (Gris. Fl.).

271. Caprifoliaceae.

8515. **Sambucus** Linn.

Sambucus canadensis Linn. Spec. (1753) 269. Elder.
Cultivated. [Amer. sept.] (E. a. P.).

8523. **Lonicera** Linn.

Lonicera japonica Thunb. Fl. Jap. (1784) 89. White honeysuckle.
Cultivated. [Himalaya]. (Ind. Kew.).

275. Cucurbitaceae.

8562. **Melothria** Linn.

Melothria fluminensis Gard. in Hook. Lond. Journ. Bot. I (1824) 173.
St. Eustatius: Quill: n. 433 B.; inner slope of the Quill 350 M.: n. 418 B.
Saba: Windwardside: n. 1933 B.; Gainbygut: n. 35.
Antill., Amer. cent. and austral. (Cogniaux 1881).

8591. **Momordica** Linn.

Momordica Charantia Linn. Spec. (1753) 1009; Gris. Fl. 287; Duss 307; Millspaugh 533. Maidenapple.
St. Eustatius: on the slope of the Cliff near Oranjestad: n. 58 B.; along roads in Oranjestad: n. 562 B., 35 H., 42 G.
Saba: along roads between Bottom and Windwardside 200 M.: n. 1325 B., 1706; locality unknown: n. 163 L.
St. Croix ex Millspaugh.
In all trop. and subtrop. countries. (Cogniaux 1881).

8599. **Cucumis** Linn.

Cucumis Anguria Linn. Spec. (1753) 1011: Gris. Fl. 288; Duss 309; Millspaugh 532. Pumpkin.
St. Eustatius: Locality unknown: n. 156 G.
Saba: along roads: n. 1707 B.; locality unknown: n. 276 L.
St. Croix ex Millspaugh.
Florida austr., Antill., Texas, Amer. centr. and austr. sept. (Cogniaux 1881).

8610. **Lagenaria** Ser.

Lagenaria vulgaris Ser. in Mem. Soc. Phys. Genèv. III. 1 (1825) 25; Gris. Fl. 288; Duss 308; Sweet gourd.

Saba: Mountain 800 M.: n. 2230 B.; locality unknown: n. 275 L., 308 L.

St. Croix ex Millspaugh.

Indig. in Afr. trop. and India orient. (Cogniaux 1881). Also cultivated.

8622. **Cucurbita** Linn.

Cucurbita maxima Duchesne in Lam. Encyc. II (1786) 151.

Cultivated. [Asia merid.] (Cogniaux 1881).

8636. **Sechium** Juss.

Sechium edule Sw. Fl. Ind. Occ. II (1800) 1150; Gris. Fl. 286; Duss 306.

Saba: Boobyhill: n. 1567 B.; Windwardside: n. 1595 B.; Mountain 800 M.: n. 2198*a* B.

Antill., Mexico, Amer. centr., Panama., Nova Granata, Venezuela, Brasilia. (Cogniaux 1881). Also cultivated.

277. Goodeniaceae

8716. **Scaevola** Linn.

Scaevola Plumieri Vahl Symb. II (1791) 36; Gris. Fl. 388; Duss 378; Millspaugh 533.

Scaevola Lobelia Murr. Syst. ed. XIII (1774) 178.

St. Martin: Colebay (coll. George): n. 2503*a* B.; near Simsonsbaylagoon: n. 3035*b* B.

Bermud., Baham., Antill. (Herb. Krug et Urban).

280. Compositae.

8751. **Vernonia** Schreb.

Vernonia punctata Sw. ex Wikstr. in Vet. Acad. Handl. Stockh. (1827) 72; Gris. Fl. 353; Duss 351.

Vernonia longifolia Pers. Syn. II (1807) 404. Wild tobacco.

St. Eustatius: Signalhill 200 M.: n. 138 B.; top of the Quill 400 M.: n. 206 B., 309 B., 328 B.; slope of the Quill near Bengalen 50—200 M.: n. 658 B., 669 B.; along roads near English Quarter: n. 1006 B.; along roads near Bengalen: n. 1197 B.; slope of the Quill: n. 55, 57; slope of Signalhill: n. 56; locality unknown: n. 198 H., 272 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1280 B.; Crespeen 400 M.: n. 1719 B.; Laddergut 0—200 M.: n. 1968 B.; Ladder: n. 54.

St. Martin: from Filipsburg to Guanabay: n. 2120 B.; Marigot-hill—Marigot 0—200 M.: n. 2641 B.; near Mulletpond: n. 2755 B.; hill on the northern side of Cul de Sac: n. 2975 B.; from Belvedere to Oysterpond: n. 3059 B.; Mount Paradis 150—400 M.: n. 3194 B., 3348 B.; Centryhill: n. 319.

Antill., Mexico, Honduras. (Gris. Fl.).

8775. **Elephantopus** Linn.

Elephantopus spicatus Aubl. Pl. Guian. II (1775) 808; Duss 352.

Distreptus spicatus Cass. in Bull. Soc. Philom. (1817) 66; Gris. Fl. 355; Millspaugh 534.

St. Eustatius: Slope of the Quill near Bengalen: n. 711*a* B.

Saba: Boobyhill: n. 1590*a* B.; Crespeen—Rendez-vous: n. 199; Rendez-vous—Mountain 4—600 M.: n. 198.

St. Croix ex Millspaugh.

Antill., Cuba and Mexico to Venezuela and Peru. (Gris. Fl.).

8795. **Ageratum** Linn.

Ageratum conyzoides Linn. Spec. (1753) 839; Gris. Fl. 356; Duss 353; Millspaugh 533. White cap.

St. Eustatius: in a garden near Oranjestad: n. 77 B.; along roads in Oranjestad: n. 545 B.; slope of the Quill: n. 290, 291, 292; locality unknown: n. 6 G., 6 H., 230 H.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1318 B.; Greathill 400 M.: n. 1378 B.; Mountain 600 M.: n. 1781 B.; Laddergut 0—200 M.: n. 2022 B.; Crespeen—Rendez-vous: n. 289; Gainbygut: n. 288; locality unknown: n. 20 L., 135 L.

St. Martin: Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2899 B.; Milldrumhill in plantations 300 M.: n. 3130 B.

St. Croix ex Millspaugh.

In all warmer countries of both hemisph. (E. a. P.).

8816. **Eupatorium** Linn.

Eupatorium canescens Vahl. in West Bidr. St. Croix (1793) 302; Gris. Fl. 360; Duss 355.

Eupatorium sinuatum Lam. Encycl. II (1786) 407; Millspaugh 534.

St. Eustatius: Gut near Fort de Wind: n. 841*a* B.; White Wall: n. 814*a* B.

St. Croix ex Millspaugh.

Cuba, Domingo, Portorico, Antigua, Guadeloupe. (Herb. Krug et Urban).

Eupatorium conyzoides Vahl. Symb. Bot. III (1807) 96; Gris. Fl. 358.

St. Eustatius: Top of the Quill 400 M.: n. 184 B., 258 B., 501 B.; along roads near Bengalen: n. 1196 B.; slope of the Quill: n. 25, 26, 288; road to Roundhill: n. 24.

Saba: Crispeen 400 M.: n. 1717 B.; Laddergut: n. 1999 B.; Flatpoint: n. 2126 B.; Peperpot: n. 23; Mountain: n. 290; Gainbygut: n. 289.

St. Martin: lower part of the Milldrumhill: n. 3162 B..

Bermud., Florida austr., Antill., Mexico to Brazil. (Hemsley 1884).

Eupatorium iresinoides H. B. et K. Nov. Gen. et Spec. IV (1820) 105. t. 340; Gris. Fl. 360; Duss 355.

Saba: Bottom: 200 M.: n. 1446 B.; from Bottom to Marypoint 100—200 M.: n. 1515*a* B.; Hellsgate: n. 1690 B.; Crispeen 400 M.: n. 1725 B.; Peperpot: n. 29; Crispeen Rendez-vous: 400 M.: n. 28.

Antill., Panama to Venezuela. (Gris. Fl.).

Eupatorium macranthum Sw. Fl. Ind. Occ. III (1806) 1315.

St. Eustatius: Top of the Quill 400 M.: n. 307 B., 32, 30, 293.

Saba: Mountain near Windwardside 600 M.: n. 2154 B., 2178 B.; Crespeen—Rendez-vous 400 M.: n. 31, 293.

St. Kitts. (Herb. Krug et Urban).

Eupatorium macrophyllum Linn. Spec. (1763) 1175; Millspaugh 534.

Hebeclinium macrophyllum DC. Prodr. V (1836) 136; Gris. Fl. 356; Duss 353.

Saba: between Bottom and Marypoint 300 M.: n. 1487 B.; 100—200 M.: n. 1511 B.; Laddergut 0—200 M.: n. 1965 B.; Gainbygut: n. 33.

St. Martin: Mount Paradis 300—400 M.: n. 3349 B.

St. Croix ex Millspaugh.

Bermud., throughout the Antill. and southward to Brazil. (Hemsley 1884).

Eupatorium paniculatum Schrad. Ind. Sem. Hort. Gotting. (1832) 2; Gris. Fl. 362; Duss 356.

Eupatorium guadalupense Spreng. Syst. III (1826) 414.

Saba: Top of the Mountain 800 M.: n. 1805 B.; Hellsgate: n. 291; Marypointgut: n. 27.

Antill., Honduras, Peru, Venezuela, Brazil. (Gris. Fl.).

8901. **Erigeron** Linn.

Erigeron bonariensis Linn. Spec. (1753) 863; Gris. Fl. 365; Duss 360.

Saba: Mountain 6—800 M.: n. 11.

Antill., Amer. centr. to Buenos Ayres. (Gris. Fl.).

Erigeron canadensis Linn. Spec. (1753) 863; Gris. Fl. 365; Duss 360. Foxtail.

St. Eustatius: Slope of the Quill: n. 13; Cultuurvlakte: n. 12; locality unknown: n. 145 G., 173 H.

Saba: Hellsgate—Marypoint: n. 2033 B.; Rendez-vous 400 M.: n. 296; locality unknown: n. 248 L., 259 L.

St. Martin: near Mulletpond: n. 2760 B.; lower part of Milldrumhill: n. 3169 B.

Bermud., Canada to Brazil, and naturalised in many other countries of both hemisph. (Hemsley 1884).

Erigeron spathulatus Vahl. in West. Bidr. St. Croix (1793) 303; Gris. Fl. 365; Duss 359; Millspaugh 534.

Saba: between Bottom and Marypoint 100—200 M.: n. 1502 B., 1558 B.; Laddergut 0—200 M.: n. 1958 B., 286; Peperpot: n. 20; Crespeen—Rendez-vous: n. 19; Gainbygut: n. 287.

St. Martin: Milldrumhill in plantations 300 M.: n. 3128 B.

St. Croix ex Millspaugh.

Hispaniola, Portorico, Martinique, Guadeloupe, Trinidad. (Herb. Krug et Urban).

8915. **Gundlachia** A. Gray.

Gundlachia domingensis A. Gray Bot. Contr. in Proc. Amer. Acad. XVI (1880) 100.

Baccharis dioica Gris. Kar. (1857) 85; Gris. Fl. 366; Duss 361.

Saba: near the Sulphurmines: n. 1700 B.

Baham., Antill. (Symb.).

8933. **Baccharis** Linn.

Baccharis cotinifolia Urb. in Urb. Symbol. Antill. III (1903) 406; Gris. Fl. 366; Duss 360.

Saba: Top of the Mountain: n. 274.

Antill., Costarica. (Symb.).

8941. **Pluchea** Cass.

Pluchea odorata Cass. in Dict. Sc. Nat. XLII (1826) 3; Gris. Fl. 366; Duss 361; Millspaugh 535. Wild tobacco.

St. Eustatius: Slope of the Cliff near Gallowsbay: n. 62 B.; seashore: n. 30; locality unknown: n. 61 H., 116 G.

Saba: between Bottom and Marypoint 100—200 M.: n. 1526 B.; Crispeen—Rendez-vous 400 M.: n. 303; locality unknown: n. 228 L., 234 L.

St. Martin: Milldrumhill in plantations 300 M.: n. 3127 B.

St. Croix ex Millspaugh.

Antill., Guiana., Amer. centr. (Hemsley 1884).

Pluchea purpurascens DC. Prod. V (1836) 452; Gris. Fl. 367; Duss 362; Millspaugh 535.

St. Martin: Cul de Sac—Marigothill 0—200 M.: n. 2621 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Bermud., Florida and Mexico, Antill., to Nova Granata. (Hemsley 1884).

8992. **Gnaphalium** Linn.

Gnaphalium purpureum Linn. Spec. (1753) 854. vel. affin.

Gnaphalium americanum Mill. Gard. Dict. ed. VIII (1768) n. 17; Duss 373.

Saba: Paris 400 M.: n. 1375 B.; between Bottom and Marypoint 100—200 M.: n. 1502*a* B.; Greathill: n. 37; Jenkeygut: n. 36.

Amer. and warmer parts of Africa, Asia and Australia. (E. a. P.).

9101. **Lagascea** Cav.

Lagascea mollis Cav. in Anal. Cienc. Nat. VI (1803) 333 t. 44.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1310 B.; along roads 200—300 M.: n. 1708 B.; Windwardside: n. 2091 B., 67.

St. Martin: from Filipsburg to Guanabay: n. 2403 B., 2415 B.; Cul de Sac—Marigothill 0—200 M.: n. 2631 B.; hill on the northern side of Cul de Sac: n. 2972 B.; French frontier: n. 68; Marigotroad: n. 69, 299.

Anguilla Boldingh.

Indig. in Amer. centr. (E. a. P.).

9117. **Clibadium** Linn.

Clibadium erosum DC. Prod. V (1836) 506; Gris. Fl. 368; Duss 362.

Saba: Mountain 6—800 M.: n. 179.

Portorico, Dominica, Martinique, St. Vincent. (Herb. Krug et Urban).

9130. **Acanthospermum** Schrank.

Acanthospermum humile DC. Prod. V (1836) 522; Gris. Fl. 369; Millspaugh 533.

St. Martin: Cul de Sac—Marigot 0—200 M.: n. 2657 B.; along roads from Filipsburg to Marigot: n. 3109 B.

St. Croix ex Millspaugh.

Jamaica, Cuba, Haiti, Panama. (Gris. Fl.).

9138. **Parthenium** Linn.

Parthenium Hysterophorus Linn. Spec. (1753) 988; Gris. Fl. 369; Duss 365; Millspaugh 535.

St. Eustatius: in a garden in Oranjestad: n. 79 B., 10; along roads in Oranjestad: n. 520 B., 3 G., 3 H.

Saba: Laddergut: n. 1954 B., 11; Mountain near Windwardside 600 M.: n. 2165 B.; locality unknown: n. 56 L., 95 L.

St. Martin: from Filipsburg to Guanabay: n. 2398 B.

Anguilla Boldingh.

St. Croix ex Millspaugh.

Antill., Amer. sept. and centr., and in other parts of both hemisph. (E. a. P.).

9146. **Ambrosia** Linn.

Ambrosia hispida Purch. Fl. Am. Sept. Suppl. (1814) 743.

Ambrosia crithmifolia DC. Prod. V (1836) 525.

St. Eustatius: in a garden in Oranjestad: n. 157 G., 1102 B.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1303 B.; Windwardside: n. 1949 B.

St. Martin: from Filipsburg to Belvedere: n. 2561 B.

Florida. (Ind. Kew.). Also cultivated.

9148. **Xanthium** Linn.

Xanthium orientale Linn. Spec. (1763) 1400; Duss 364.

Saba: Bottom: n. 62.

In almost all warmer countries of both hemisph. (E. a. P.).

9155. **Zinnia** Linn.

Zinnia elegans Jacq. Coll. III 152.
Cultivated. [Patria ignota.].

9166. **Eclipta** Linn.

Eclipta alba Hassk. Pl. Jav. Rar. (1848) 528; Gris. Fl. 370; Duss 366; Millspaugh 534.
Eclipta erecta Linn. Mant. II (1771) 286.
St. Martin: lower part of Mount Paradis: n. 3187 B.
St. Croix ex Millspaugh.
In the warmer countries of both hemisph. (E. a. P.).

9191. **Borrichia** Adans.

Borrichia arborescens DC. Prod. V (1836) 489; Gris. Fl. 371; Duss 366; Millspaugh 533.
Saba: Peperpot: n. 278.
St. Martin: Point Blanche (coll. George): n. 2493 B.; Colebay (coll. George): n. 2506 B.; near Mulletpond: n. 2750 B.; near Simsonsbayvillage: n. 3030 B.; Tintamarre: n. 3373 B.; Oysterpond: n. 306; Guanabay: n. 304, 305.
St. Croix ex Millspaugh.
Antill., Bermud., Key of Florida, seashore of the Carib. Sea to Peru. (Hemsley 1884; E. a. P.).

9192. **Wedelia** Jacq.

Wedelia buphthalmoides Gris. in Goett. Abh. VII (1857) 235; Gris. Fl. 372; Duss 367; Millspaugh 536. Yellow sage.
St. Eustatius: Top of the Quill 400 M.: n. 274 B., 286 B.; slope of the Quill near Bengalen 150 M.: n. 681 B., 687 B.; gut near Fort de Wind 50 M.: n. 836 B.; along roads near Glassbottle: n. 866 B.; from Little Mountain to Venusbay: n. 996 B.; slope of the Quill on the side of White Wall 200 M.: n. 1171 B.; along roads near Bengalen: n. 1198 B.; Gilboohill: n. 58; Sugarloaf: n. 317; locality unkown: n. 165 G., 233 H.
Saba: along roads between Bottom and Windwardside 200 M.: n. 1284 B., 1298 B.; between Bottom and Marypoint 200 M.: n. 1553 B.; Helsgate: n. 1694 B.; Laddergut 0—200 M.: n. 1960 B.; gut between Hellsgate and Mastiegut 300—400 M.: n. 2058 B.; Windwardside: n. 2315 B.; Peperpot: n. 318; Paris 2—400 M.: n. 61; Crespeen—Rendez-vous: n. 60; locality unknown: n. 316, 29 L.
St. Martin: from Filipsburg to Guanabay: n. 2410 B.; Naked-

boyhill 50—200 M.: n. 2703 B., 200—260 M.: n. 2719 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2884 B.; hills on the northern side of Cul de Sac: n. 2984 B.; lower part of Mount Paradis: n. 3291*a* B.; Colebayhill: 59; John Ednyhill: n. 315.

I also saw Wedelia buphthalmoides: on the top of Mount Paradis 400 M.; hills on the eastern side of Cul de Sac.

Anguilla Boldingh.
St. Croix ex Millspaugh.
Baham. (Hitchc.); Antill. (Herb. Krug et Urban).

9196. **Tithonia** Desf.

Tithonia tagetiflora Desf. in Ann. Mus. Par. I (1802) 46. t. 4.
Cultivated. [Mexico]. (E. a. P.).

9207. **Spilanthes** Jacq.

Spilanthes uliginosa Sw. Prod. Veg. Ind. Occ. (1788) 110; Gris. Fl. 376; Duss 370.
St. Eustatius: near English Quarter: n. 1018 B.
Warmer countries of both hemisph. (E. a. P.).

9224. **Synedrella** Gärtn.

Synedrella nodiflora Gartn. Fruct. II (1791) 456. t. 171; Gris. Fl. 377; Duss 371.
Ucacoua nodiflora Hitch. in Missouri. Bot. Gard. Rep. IV (1893) 100; Millspaugh 535.
St. Eustatius: Slope of the Quill: n. 47; locality unknown: n. 242 H.
Saba: along roads between Bottom and Windwardside 200 M.: 1332 B.; lower part of the Bottom Mountain 250 M.: n. 1397 B.; along the Forthgut 150—200 M.: n. 1629 B.; Mountain 600 M.: n. 1754 B.
St. Martin: Nakedboyhill 50—200 M.: n. 2706 B.; mountain between Mont des Accords and Centryhill 0—200 M.: n. 2852 B., 200—300 M.: n. 2892 B.
St. Croix ex Millspaugh.
Indig. in Amer. trop.; dispersed in the Old world. (E. a. P.).

9237. **Bidens** Linn.

Bidens bipinnatus Linn. Spec. (1753) 832; Gris. Fl. 373; Duss 369; Millspaugh 533.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1333 B., 1366 B.; Rendez-vous: n. 275; Rendez-vous—Crespeen: n. 276; locality unknown: n. 255 L.

St. Martin: Hill on the northern side of Cul de Sac 0—100 M.: n. 3003 B.; along roads from Grande Case to Marigot: n. 3099 B.; French frontier: n. 295.

St. Croix ex Millspaugh.

Indig. in Amer., dispersed in the warmer countries of the Old world. (E. a. P.).

Bidens leucantha Willd. Sp. Pl. III (1800) 1719; Gris. Fl. 373; Duss 368; Millspaugh 533.

Bidens pilosa Linn. Spec. (1753) 832.

St. Eustatius: Slope of the Quill: n. 302.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1282 B.; Windwardside—Hellsgate: n. 1672 B.; seashore near Flat Point: n. 2139 B.; Crespeen—Rendez-vous n. 301; Gainby-gut: n. 303.

St. Martin: Hill on the northern side of Cul de Sac 0—100 M.: n. 2978 B.; Marigotroad: n. 279; locality unknown: n. 3602 B.

St. Croix ex Millspaugh.

Indig. in Amer., dispersed in the warmer countries of the Old world. (E. a. P.).

9238. **Cosmos** Cav.

Cosmos sulfureus Cav. Ic. I (1791) 56 t. 79. Poppy.

Cultivated. from Cuba and Mexico to Brazil.] (Gris. Fl.).

9306. **Gaillardia** Fouger.

Gaillardia aristata Purch. Fl. Am. Sept. II (1814) 573.

Cultivated. [Amer. bor.] (Ind. Kew.).

9316. **Porophyllum** Adans.

Porophyllum ellipticum Cass. Dict. XLIII (1826) 56.

Porophyllum ruderale Gris. Flor. W. I. (1861) 379; Duss 372. (p. p.). (Symb.).

St. Eustatius: along roads in Oranjestad: n. 1111 B.; slope of the Quill: n. 36, 37, 38; locality unknown: n. 277 H., 284 G.

Saba: lower part of the Bottom Mountain 300 M.: n. 1435 B.; between Bottom and Marypoint 100—200 M.: n. 1555 B.; locality unknown: n. 269 L.

St. Martin: Locality unknown: n. 3603 B.
Baham., Antill., Amer. cont. trop. (Symb.).

9319. **Pectis** Linn.

Pectis febrifuga van Hall. in Ann. Hort. et Bot. ou Flore Jard. des Pays-Bas vol. IV (1861) 33 cum tab.

Pectis linifolia Less. in Linnaea VI (1831) 709. (excl. syn.); (Symb.).

Pectis Swartziana Borg et Pauls. Veget. Dansk-vestind. Oer (1898) 110 — non Less; (Symb.).

Saba: Seashore near Forthbay: n. 1641 B.

Antill., Bonaire, Curaçao, Aruba, Columbia. (Symb.).

Pectis humifusa Sw. Prod. Veg. Ind. Occ. (1788) 114; Gris. Fl. 378; Duss 372; Millspaugh 535.

St. Eustatius: White Wall: n. 824 B.: Gilboohill 150 M.: n. 1122 B.; near Boven 200 M.: n. 1249 B.; near White Wall: n. 1258 B.; Venusbay: n. 20; locality unknown: n. 3586 B.

Saba: along the lower part of Forthgut: n. 1642 B.; St. Giles: n. 1869 B.

St. Martin: from Filipsburg to Guanabay: n. 2366 B., 2414 B., 19; near Fort Willem: n. 2801 B.; near Fort Amsterdam: n. 18.

Anguilla Boldingh.

St. Croix ex Millspaugh.

St. Domingo, Portorico, St. Thomas, St. Jan, St. Barthélemy, St. Kitts, Antigua, Guadeloupe, Desirade, Marie—Galante, Dominica, Martinique, St. Lucia, St. Vincent, Mustique, Barbados. (Symb.).

9376. **Neurolaena** R. Br.

Neurolaena lobata R. Br. in Trans. Linn. Soc. XV (1817) 120; Gris. Fl. 381; Duss 373.

St. Eustatius: Slope of the Quill above White Wall: n. 1188 B.

Saba: Top of the Mountain 800 M.: n. 1836 B.; locality unknown: n. 210 L.

Antill., Mexico, Columbia. (E. a. P.).

9389. **Erechthites** Raf.

Erechthites hieracifolia Raf. ex DC. Prodr. VI (1837) 294; Gris. Fl. 381; Duss 374; Millspaugh 534.

Erechthites praealta Raf. Fl. Ludov. (1817) 65.

St. Eustatius: Slope of the Quill near Bengalen: n. 9.

Saba: between Bottom and Marypoint 300 M.: n. 1485 B.; Gainbygut: n. 10.

St. Croix ex Millspaugh.

In all warmer parts of Amer., also in the Old world. (E. a. P.).

Erechthites valerianaefolia DC. Prod. VI (1837) 295.

Saba: between Bottom and Marypoint 350 M.: n. 1491 B.; Mountain 600—800 M.: n. 1786 B.; locality unknown: 166 L., 193 L.

Amer. centr. and sept., Java. (Herb. Berlin).

9411. **Senecio** Linn.

Senecio sonchifolius Moench. Meth. Suppl. (1802) 231.

Emilia sonchifolia DC. Prod. VI (1837) 302; Gris. Fl. 381; Duss 374; Millspaugh 534.

St. Eustatius: near Boven 200 M.: n. 1234 B.; locality unknown n. 126 G.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1285 B., 1348 B.; Windwardside: n. 2309 B.

I also saw Senecio sonchifolius in the Laddergut.

St. Martin: Nakedboyhill 50—200 M.: n. 2707 B.; Mountain between Mont des Accords and Centryhill 200—300 M.: n. 2890 B.; Milldrumhill in plantations 300 M.: n. 3129 B.

I also saw Senicio sonchifolius: Mount Paradis 300—400 M.

St. Croix ex Millspaugh.

Indig. in the trop. of the Old world. (E. a. P.).

9529. **Chaptalia** Vent.

Chaptalia nutans Hemsl. Biol. Centr. Am. Bot. II 255; Millspaugh 533.

Leria nutans DC. Ann. Mus. Par. XIX (1812) 68; Gris. Fl. 383; Duss 375.

St. Eustatius: Slope of the Quill: n. 310.

Saba: along roads between Bottom and Windwardside 200 M.: n. 1315 B.; Mountain 400 M.: n. 1769 B., 1774 B., 308; Crespeen—Rendez-vous: n. 307, 309.

St. Martin: Milldrumhill 300 M: n. 3179 B.; Mount Paradis 300—400 M.: n. 3339 B.

St. Croix ex Millspaugh.

In all warmer countries of Amer. (E. a. P.).

9595. **Sonchus** Linn.

Sonchus oleraceus Linn. Spec. (1753) 794; Gris. Fl. 384; Duss 375; Millspaugh 535. Wild salad.

St. Eustatius: Glassgut at the seashore near Oranjestad: n. 48 B.; Bengalen: n. 606 B.; along roads near Glassbottle: n. 884 B.; slope of the Quill: n. 41; Roundhill: n. 302.

Saba: lower part of the Bottom Mountain 300 M.: n. 1430 B.; Mountain 600 M.: n. 1780 B.; Bottom: n. 40; locality unknown: n. 40 L.

St. Martin: Milldrumhill in plantations 300 M.: n. 3133 B.

St. Croix ex Millspaugh.

Widely dispersed in both hemisph. (E. a. P.).

9596. **Lactuca** Linn.

Lactuca intybacea Jacq. Ic. Pl. Rar. I (1781) t. 162; Millspaugh 534.

Brachyrhamphus intybaceus DC. Prod. VII (1838) 177; Gris. Fl. 384; Duss 376.

St. Eustatius: Cultuurvlakte: n. 57; seashore: n. 307.

St. Croix ex Millspaugh.

Antill., Nicaragua, East Indies, Africa trop. (Gris. Fl.).

SECOND PART

HISTORICAL

HISTORICAL

CHAPTER I

HISTORICAL SKETCH.

The following persons have given informations about the Flora of the Dutch West Indian Islands. Liter. *Urban* Symbolae Antillanae Vol. I and Vol. III.

St. Eustatius.

J. B. Labat, *between* 1694 *and* 1705.
J. B. Labat in his: Nouveau voyage aux isles de l'Amérique.... Editio 1724. La Haye, does not give any compendium of the vegetation of the Dutch Antilles.

N. J. Jacquin between 1755 *and* 1757.
N. J. Jacquin in his: Selectarum stirpium americanum historia, in qua ad Linnaeanum systema determinatae descriptaeque sistuntur plantae illae, quas in insulis Martinica, Jamaica, Domingo aliisque et in vicinae Continente parte observavit rariores; adjectis iconibus in solo natali delineastis. Vindobonae 1763, mentions only 6 plants found in St. Eustatius, of which I point out only those quoted by *Grisebach* in his: Systematische Untersuchungen über die Vegetation der Karaiben, insbesondere der Insel Guadeloupe:
Justicia sessilis.
Justitia eustachyana. (Beloperone eustachiana Benth.).
Heliotropium gnaphaloides. (Tournefortia gnaphalodes R. Br.).
Coccoloba nivea.
Cactus triangularis. (Cereus triangularis Haw.).
(Herb. Banks. Brit. Mus. London; Herb. Willd. Berlin).

F. Masson 1780.
I only saw *Masson* mentioned by *O. Swartz* in his: Flora Indiae occidentalis, concerning Microtea debilis.
(Brit. Mus. London).

S. Fahlberg between 1785 *and* 1834.
I only saw *Fahlberg* mentioned by *O. Swartz* in his Flora Indiae occidentalis with reference to a few plants from St. Barthélémy.
(Herb. Swartz. Stockholm; herb. Thunberg Upsala).

Placide Duchassaing de Fontbressis about 1848.
P. D. de Fontbressis collected only a few plants in St. Eustatius; I saw the following mentioned in *Grisebach*: Systematische Untersuchungen über die Vegetation der Karaiben, insbesondere der Insel Guadeloupe:
no. 16. Lepidium virginicum Linn.
no. 22. Polanisia viscosa DC.
no. 24. Capparis cynophallophora Linn. γ attenuata.
no. 162. Sida spinosa Linn.
no. 286. Tribulus maximus Linn. (Kallstroemia maxima Wight et Arn.).
no. 386. Stylosanthes procumbens Sw. (Stylosanthes hamata Taubert).
no. 942. Cyphiacanthus barbadensis Ns. (Ruellia tuberosa Linn.).
no. 1047. Heliophytum indicum DC. (Heliotropium indicum Linn.).
no. 1074. Lantana camara Linn.
no. 1076. Lantana involucrata Linn.
(Herb. Göttingen).

B. A. Euphrasen 1788.
B. A. Euphrasen in his: Beskrifning öfver Svenska vestindiska ön St. Barthélémi samt öarne St. Eustache och St. Christopher. Stockholm 1798, makes also mention of a few plants from St. Eustatius. I did not think it necessary to quote them here as, according to the statement of *Urban* (Symbolae Antillanae I p. 49) it is impossible to control the determination of Euphrasen.

F. L. l'Herminier 1815.

M. D. Feenstra about 1836.
The few botanical data I could take from his: De Nederlandsche West-indische eilanden in derzelver tegenwoordigen toestand. Amsterdam. 1836—1837 are of no use to the Systematic Part. In describing the vegetation in the Third Part I shall say something about this paper of *Feenstra*.

W. F. R. Suringar 1885.
W. F. R. Suringar made a botanical investigation on the Dutch West Indian Islands in 1885.
Further details about this expedition will be found in Chapter II of the Historical Part of this Flora.
(Herb. Leiden, Herb. Krug et Urban Berlin).

J. J. Walch about 1889.
In the Report of the 60 meeting of the Br. Ass. f. Adv. Sc. Leeds 1890 p. 448 the following is said about the collection *Walch*: A small collection of plants numbering 143 specimens, was received from *Mr. J. J. Walch, R. N.* This collections includes plants from Dominica, St. Martin, St. Eustatius, St. Kitts, St. Lucia and Grenada. Most of the plants consisted of common West Indian species, presumably such as would be met with in the more accessible spots in the various places visited.
(Herbar. Kew.).

F. A. F. C. Went 1902
F. A. F. C. Went is his: Rapport omtrent den toestand van landen tuinbouw op de Nederlandsche Antillen, bijlage V van het Koloniaal verslag van Curaçao van 1902, gives some observations on the vegetationof St. Eustatius; in so far as these observations will be interesting to us I shall deal with them in the Third Part of this Flora.

J. van Grol-Meyers 1904—1906.
Two collections of plants gathered by *Mrs. van Grol-Meyers* will be treated more fully in Chapter II of the Historical Part of this Flora.
(Herb. Utrecht; Herb. Koloniaal Museum Haarlem).

I. Boldingh 1906.
The botanical investigations I made in 1906 will more largely be dwelt on in Chapter II of the Historical Part of this Flora.

Besides the above mentioned data I found in *Grisebach*: Flora of the British W. I. Islands that the following plants were also collected in St. Eustatius:
p. 66. Lithophila muscoides Sw.
p. 75. Sida ulmifolia Cav.
And in *Grisebach*: Systematische Untersuchungen über die Vegetation der Karaiben, insbesondere der Insel Guadeloupe I found:
1472. Aspidium macrophyllum Sw. (Aspidium martinicense Spr.).

Saba.

J. H. Labat between 1694 *and* 1705.
Conformable to what I mentioned under St. Eustatius.

J. E. Forsström 1805—1812.
I saw *Forsström* mentioned only in reference to a few plants in *Urban*, Symbolae Antillanae.
(Herb. Swartz and Herb. Stockholm).

M. D. Feenstra about 1836.
Conformable to what I mentioned under St. Eustatius.

Placide Duchassaing de Fontbressis about 1848.
According to *Grisebach*: Systematische Untersuchungen über die Vegetation der Karaiben, insbesondere der Insel Guadeloupe, *P. D. de Fontbressis* collected in Saba: n. 187. Guazuma tomentosa Kth.

O. Kuntze 1874.
Besides at Caesalpinia ciliata Urb. I did not see *O. Kuntze* mentioned at the label of any plant in the Herbarium of Krug and Urban in Berlin. In his: Um die Erde. Reisebericht eines Naturforschers, Leipzig 1881, *Kuntze* mentions only Melocactus communis Link et Otto.
(Herb. Krug et Urban Berlin).

W. F. R. Suringar 1885.
F. A. F. C. Went 1902.
I. Boldingh 1906.
For these three persons I refer to what was said under St. Eustatius.

A. C. W. Lionarons 1907.
The plants gathered by *Lionarons* will fully be treated in Chapter II of the Historical Part of this Flora.

St. Martin.

J. B. du Tertre about 1650—1656.
J. B. Labat between 1694 *and* 1705.
Conformable to what I mentioned under St. Eustatius.

N. J. Jacquin between 1755 *and* 1757.
N. J. Jacquin in his: Select. Stirp. Amer., does not mention but 8 plants found in St. Martin. I will quote only the plants enu-

merated in *Grisebach* Systematische Untersuchungen über die Vegetation der Karaiben, insbesondere der Insel Guadeloupe:
Myginda uragoga cf. Symb. Antill. V. p. 80. (Rhacoma crossopetalum Linn.).
Rhamnus colubrinus (Colubrina ferruginosa Brong.).
Malpighia linearis (Malpighia angustifolia Linn.).
Corchorus hirsutus Linn.
Lobelia Plumieri (Scaevola Plumieri Vahl).

A. Plée 1821.
After a discussion I had with *Prof. I. Urban*, I think it superfluous to quote the few plants that are collected by *Mr. Plée.* (Herb. Mus. Paris).

M. D. Feenstra about 1836.
W. F. R. Suringar 1885.
J. J. Walch about 1889.
F. A. F. C. Went 1902.
I. Boldingh 1906.
For these 5 persons I refer to what was said under St. Eustatius.

According to *Grisebach*: Systematische Untersuchungen über die Vegetation der Karaiben, insbesondere der Insel Guadeloupe, also the following plants were collected in St. Martin:
n. 868. Metastelma paralias Decs. (Metastelma parviflorum R. Br.).
n. 1009. Cuscuta americana Linn.

According to the notes I made about the persons and collections afore said I did not think it desirable to treat any of the smaller collections. The difficulties in getting all these plants would not be in proportion to the small amount of greater completeness of the plants then mentioned in this Flora.

So I have treated in the Systematic Part only the collections made by *Suringar*, *van Grol-Meyers, Boldingh* and *Lionarons.*

It will appear from these collections that I have about 5000 numbers of plants at my disposal, a big number when we take into consideration that the surface of the 3 Islands does not surpass 140 □ km.

CHAPTER II

NOTES ON THE LARGER COLLECTIONS.

Collection W. F. R. Suringar.

Dr. J. Valckenier Suringar was so kind as to allow me to make use of the diary written by his father *Prof. W. F. R. Suringar* during his botanical investigations of the Dutch West Indian Islands in 1885.

From these notes together with the data drawn from the labels attached to the collected plants I was enabled to make the following list of the localities visited by *Suringar* and the numbers of plants collected there.

St. Eustatius: April 8th—18th and May 7th—18th.

April 8th.	Concordiabay, Turtlebay.	coll. 70 nos.
„ 15th.	Fairplay, English Quarter.	
May 7th.	Bengalen.	
April 9th.	Signalhill and environment.	coll. 50 nos.
„ 11th.	Little Mountain, Tumbledowndickbay.	
„ 17th.	Boven, Little Mountain.	
May 8th.	Fort Amsterdam.	
„ 9th.	Gilboohill.	
April 8th.	Seashore.	coll. 60 nos.
„ 10th.	Seashore.	
„ 11th.	Sugarloaf and White Wall.	coll. 35 nos.
May 11th.	Sugarloaf.	
April 13th.		Quill. coll. 170 nos.
„ 14th.		
„ 16th.		
May 18th.		
„ 13th.		

On his 16 excursions through St. Eustatius *Suringar* has evidently collected 385 nos.

All the localities visited by *Suringar* were also investigated by me.

In proportion to the other two islands St. Eustatius was investigated by *Suringar* best of all, thanks to a longer stay there.

Saba: April 21—28th.

April 22th. Paris and Greathill and surroundings of the Bottom. coll. 50 nos.
„ 22th. Peperpot near Springbaygut. coll. 35 nos.
„ 23th. Top of the Mountain. coll. 100 nos.
„ 24th. }
„ 26th. } Surroundings of the Bottom. coll. 50 nos.
„ 28th. }
„ 25th. Gainbygut. coll. 30 nos.
„ 27th. Round the Island. coll. 90 nos.
„ 27th. Laddergut. coll. 40 nos.

Suringar has evidently collected during these 9 excursions 395 nos.

I myself saw all the localities visited by *Suringar*.

St. Martin: April 30th—May 5th.

April 30th. Saltpond and Fort Amsterdam. coll. 40 nos.
May 1st. Centryhill and Surroundings. coll. 45 nos.
„ 2nd. from Filipsburg to Simsonsbay. coll. 50 nos.
„ 3rd. Nakedboyhill, Princequarter. coll. 25 nos.
„ 4th. from Filipsburg to Cul de Sac and French frontier. coll. 60 nos.
„ 5th. from Filipsburg to Guanabay. coll. 20 nos.

Suringar has collected during these 6 excursions 240 nos.

The short time *Suringar* could spend on St. Martin is the reason why this island was explored but on a very small scale; the French part of St. Martin has not been studied; all the localities named by *Suringar* were also visited by me.

The collection Suringar is preserved is „'s Rijks-herbarium" at Leiden; duplicates are to be found in the collection Herb. Krug et Urban in Berlin (K. Bot. Gart. und Museum Steglitz-Dahlem). The greater part of the Suringar plants were determinated by *I. Urban* before I took up the study of the West Indian Flora and another part was determined by him afterwards.

Collections Mrs. J. van Grol-Meyers.

The two collections of dried plants given by *Mrs. J. van Grol-Meyers* to the Koloniaal Museum at Haarlem and the Her-

barium of the Botanical Laboratory of the University of Utrecht consist both of about 350 numbers of well dried plants with ample notes on the colour of flowers and on the way the inhabitants of St. Eustatius make use of these plants.

In my paper: Lijst van Planten, die door de Bewoners van de drie Nederlandsche Antillen St. Eustatius, Saba en St. Martin als geneeskrachtig worden beschouwd. Bull. Kolon. Mus. Haarlem n. 38 (1907) p. 93—112, these notes have been of great use to me.

As might be expected the greater part of the plants in these collections are common tropical plants growing in the more accessible parts of the Island; there is moreover a fine collection of plants from the Quill. The examination these plants before I entered upon my voyage, has rendered it easy for me to recognise them in their natural state.

The cultivated plants sent in by *Mrs. van Grol* facilitated my paying attention also to these plants, and this was the more agreable for me as I could thus the better comply with the wishes of the „Commissie van het F. W. van Eeden-fonds."

Thanks to the great number of flowers and fruits occurring in the collection van Grol-Meyers it was not too difficult for me, though beginning with the study of the West Indian Flora to find out the names.

The following list contains the names of the plants collected by *Mrs. J. van Grol-Meyers.*

1. Collection J. van Grol-Meyers of the Koloniaal Museum at Haarlem.

1 Asclepias nivea.
2 Commelina virginica.
3 Parthenium Hysterophorus.
4 Cassia occidentalis.
5 Chenopodium ambrosioides.
6 Ageratum conyzoides.
7 Heliotropium parviflorum.
8 Euphorbia pilulifera.
9 Chenopodium murale.
10 Scoparia dulcis.
11 Capraria biflora.
12 Datura Metel.
13 Datura Stramonium.
14 Heliotropium indicum.
15 Sida carpinifolia.
16 Amarantus tristis.
17 Argemone mexicana.
18 Antigonon leptopus.
19 Ipomoea pentaphylla.
20 Triphasia trifoliata.
21 Passiflora quadrangularis.
22 Cassia bicapsularis.
23 Ricinus communis.
24 Capsicum dulce.
26 Abrus precatorius.
28 Polanisia viscosa.
29 Gynandropsis pentaphylla.
30 Poinciana regia.

31 Plumbago scandens.
32 Euphorbia heterophylla.
33 Salvia serotina.
34 Phyllanthus niruri.
35 Momordica Charantia.
36 Acacia macracantha.
37 Leucaena glauca.
38 Terminalia Catappa.
39 Acacia macracantha.
40 Tamarindus indica.
41 Psidium guajava.
42 Zephyranthes carinata.
43 Calotropis procera.
44 Melia azedarach.
45 Anacardium occidentale.
46 Capparis cynophallophora.
47 Solanum racemosum igneum.
48 Plumiera rubra.
49 Plumiera alba.
50 Oncidium spec.
51 Brassavola rigida.
52 Tecoma leucoxylon.
53 Picrasma antillana.
54 Croton flavens.
55 Eugenia axillaris.
56 Lantana involucrata.
57 Mangifera indica.
58 Punica Granatum.
59 Achras sapota.
60 Lochnera rosea.
61 Pluchea odorata.
63 Malpighia punicifolia.
66 Vigna repens.
67 Caesalpinia pulcherrima.
68 Caesalpinia pulcherrima.
69 Caesalpinia ciliata.
70 Mammea americana.
71 Spondias lutea.
72 Spondias purpurea.
73 Chrysobalanus icaco.
74 Justicia sessilis.
75 Hymenaea Courbaril.
76 Eugenia unitlora.
77 Linociera compacta.
78 Piper reticulatum.
79 Passiflora laurifolia.
80 Byrsonima spicata.
81 Cassia glandulosa.
82 Byrsonima spicata.
83 Ruellia tuberosa.
85 Opuntia Ficus indica.
86 Melicocca bijuga.
87 Citrus spec.
88 Anona squamosa.
89 Anona muricata.
90 Phyllantus distichus.
91 Moringa oleifera.
93 Foeniculum vulgare.
95 Carica Papaya.
96 Solanum lycopersicum.
97 Solanum lycopersicum.
98 Solanum esculentum.
99 Cuscuta americana.
100 Clusia alba.
101 Coffea arabica.
102 Theobroma Cacao.
103 Eugenia Jambos.
104 Centrosema virginianum.
105 Cecropia peltata.
106 Bursera simaruba.
107 Citharexylum quadrangulare.
108 Artocarpus incisa.
109 Eugenia ligustrina.
110 Lantana Camara.
111 Comocladia ilicifolia.
112 Persea americana.
114 Myrcia paniculata.
116 Nectandra coriacea.
117 Heliconia Bihai.
118 Tillandsia utriculata.
119 Canavalia obtusifolia.
120 Coccoloba uvifera.
121 Costus speciosus.

123 Aristolochia odoratissima.
124 Verbena chamaedrifolia.
125 Lawsonia inermis.
126 Lawsonia inermis.
127 Brunfelsia americana.
128 Amarantus paniculatus.
129 Cissus sicyoides.
130 Urera caracasana.
131 Codiaeum variegatum.
132 Phaseolus lunatus.
133 Phaseolus vulgaris.
135 Antigonon cinerascens.
137 Aegiphila martinicensis.
138 Althaea officinalis.
139 Duranta repens.
140 Bixa Orellana.
141 Brassica integrifolia.
142 Hura crepitans.
143 Jasminum spec.
144 Stigmatophyllum periplocifolium.
145 Cordia Sebestena.
146 Fourcroya gigantea.
147 Clerodendron aculeatum.
149 Plumbago capensis.
150 Parkinsonia aculeata.
151 Quisqualis indica.
152 Ipomoea pes caprae.
153 Mirabilis Jalapa.
154 Mirabilis Jalapa.
155 Chrysobalanus icaco.
156 Picrasma antillana.
157 Indigofera suffruticosa.
158 Coleus scutellarioides.
159 Cosmos sulphureus.
160 Sambucus canadensis.
161 Hibicus Rosa—sinensis.
162 Nopalea coccinellifera.
163 Opuntia Tuna.
164 Gomphrena globosa.
165 Codiaeum variegatum.
167 Codiaeum variegatum.
168 Jatropha curcas.
169 Hibiscus radiatus.
170 Nymphaea spec.
171 Jatropha multifida.
172 Leonotis nepetaefolia.
173 Erigeron canadensis.
174 Stylosanthes hamata.
175 Hymenaea Courbaril.
175*a* Boerhaavea hirsuta.
176 Achyranthes obtusifolia.
177 Croton lobatus.
178 Stenolobium stans.
179 Stylosanthes hamata.
181 Waltheria americana.
182 Sida cordifolia.
183 Thunbergia fragans.
184 Urechites suberecta.
185 Triumfetta rhomboidea.
188 Passiflora suberosa.
189 Neurogramme calomelanos.
190 Solanum aculeatissimum.
191 Lonicera japonica.
192 Clerodendron fallax.
193 Sesbania grandiflora.
194 Leonurus sibiricus.
195 Randia aculeata.
196 Jatropha gossypifolia.
197 Jatropha gossypifolia.
198 Vernonia punctata.
200 Krameria ixina.
201 Abutilon indicum.
203 Rauwolfia Lamarckiana.
204 Galactia rubra.
210 Cajanus indicus.
211 Rivina humilis.
212 Aegiphila martinicensis.
213 Psychotria rufescens.
214 Andropogon Schoenanthus.
215 Aristida americana.
216 Mimosa pudica.
217 Tillandsia recurvata.
218 Cissampelos Pareira.

220 Ipomoea fastigiata.
221 Porana paniculata.
222 Jacquemontia pentantha.
223 Boerhaavea erecta.
224 Operculina ventricosa.
225 Ibatia maritima.
227 Solanum lycopersicum.
228 Bouchea Ehrenbergii.
229 Euphorbia thymifolia.
230 Ambrosia hispida.
231 Russelia juncea.
232 Melochia tomentosa.
233 Wedelia buphthalmoides.
234 Panicum divaricatum.
235 Clitoria ternatea.
237 Eleusine indica.
238 Petiveria alliacea.
239 Allophylus occidentalis.
240 Tephrosia cathartica.
241 Hyptis pectinata.
242 Synedrella nodiflora.
243 Medicago sativa.
244 Gossypium barbadense.
245 Dioscorea alata.
248 Beloperone eustachyana.
249 Desmodium triflorum.
250 Alysicarpus nummularifolius.
251 Hibiscus esculentus.
252 Hibiscus esculentus.
253 Canna indica.
254 Canna indica.
255 Crescentia Cujete.
256 Crotalaria incana.
257 Polypodium phyllitidis.
258 Dryopteris parasitica.
259 Bignonia ungius-cati.
260 Oplismenus setarius.
261 Polypodium lycopodioides.
262 Mariscus brizaeus.
263 Smilax coriacea.
264 Xanthosoma spec.
265 Cenchrus tribuloides.
266 Cyperus elegans.
267 Tournefortia gnaphalodes.
268 Epidendrum ciliare.
269 Scleria lithosperma.
271 Chiococca racemosa.
272 Allium ascalonicum.
273 Pilea semidentata.
274 Anona montana.
275 Sida glomerata.
277 Porophyllum ellipticum.
278 Allamanda cathartica.
280 Calonyction speciosum.
281 Ipomoea pentaphylla.
282 Maranta arundinacea.
283 Cucurbita maxima.
284 Pithecolobium ungius-cati.
285 Crotalaria verrucosa.
286 Crotalaria retusa.
287 Bryophyllum pinnatum.
288 Ricinus communis.
289 Ricinus communis.
290 Manihot utilissima.
291 Haematoxylon campechianum.
292 Salvia occidentalis.
293 Stachytarpheta jamaicensis.
294 Cardiospernum halicacabum.
295 Aloe vera.
296 Ocimum micranthum.
297 Bryophyllum pinnatum.
298 Hymenocallis caribaea.
299 Eucharis grandiflora.
300 Sanseviera guineensis.
301 Pilea microphylla.
302 Pilea microphylla.
304 Blechum Brownei.
305 Jasminum pubescens.
306 Panax fruticosum.
307 Panax fruticosum.
308 Codiaeum variegatum.
309 Codiaeum variegatum.

310 Codiaeum variegatum.
311 Codiaeum variegatum.
312 Gaillardia aristata.
314 Piscidia piscipula Sarg.
316 Angelonia angustifolia.
317 Hibiscus schizopetalus.
318 Bromelia pinguin.
321 Ceiba pentandra.
322 Pisonia subcordata.
323 Villamilla octandra.
324 Hippomane mancinella.
325 Musa paradisiaca.
326 Verbena chamaedrifolia.
329 Desmodium supinum.
330 Lochnera rosea.
331 Panax fruticosum.
332 Comocladia ilicifolia.
334 Musa paradisiaca.
336 Nerium Oleander.
339 Portulaca halimoides.

Collection J. van Grol-Meyers of the Herbarium of the Botanical Institute of the University in Utrecht.

1 Vigna repens.
2 Commelina virginica.
3 Parthenium Hysterophorus.
4 Cassia occidentalis.
5 Chenopodium ambrosioides.
6 Ageratum conyzoides.
7 Heliotropium parviflorum.
8 Euphorbia pilulifera.
9 Chenopodium murale.
10 Scoparia dulcis.
11 Capraria biflora.
12 Datura Stramonium.
13 Datura Metel.
14 Datura Stramonium.
15 Heliotropium indicum.
16 Sida carpinifolia.
17 Amarantus tristis.
18 Amarantus spinosus.
19 Amarantus polygonoides.
20 Argemone mexicana.
21 Antigonon leptopus.
22 Lochnera rosea.
23 Capsicum dulce.
24 Passiflora quadrangularis.
25 Cassia bicapsularis.
26 Ricinus communis.
27 Ricinus communis.
28 Portulaca oleracea.
29 Portulaca oleracea.
30 Kallstroemia maxima.
31 Jasminum azoricum.
32 Polanisia viscosa.
33 Gynandropsis pentaphylla.
34 Poinciana regia.
35 Plumbago scandens.
36 Euphorbia heterophylla.
37 Salvia serotina.
38 Priva echinata.
39 Melochia tomentosa.
40 Murraya exotica.
41 Phyllanthus niruri.
42 Momordica Charantia.
43 Microtea debilis.
44 Leucaena glauca.
45 Terminalia Catappa.
46 Solanum racemosum igneum.
47 Tamarindus indica.
48 Psidium Guajava.
49 Allamanda cathartica.
50 Acacia macracantha.
51 Capsicum frutescens.
52 Jatropha curcas.
53 Cordia speciosa.
54 Calotropis procera.
55 Cajanus indicus.
56 Clerodendron fallax.

57 Brunfelsia americana.
58 Ixora Jucunda.
59 Solanum torvum.
61 Lagerstroemia indica.
62 Canna indica.
63 Talinum triangulare.
64 Plumbago capensis.
65 Quisqualis indica.
66 Jatropha multifida.
67 Clusia alba.
68 Plumiera rubra.
69 Peperomia petiolaris.
70 Peireskia aculeata.
71 Eleutherine plicata.
72 Verbena chamaedrifolia.
73 Parkinsonia aculeata.
74 Caesalpinia pulcherrima.
75 Caesalpinia pulcherrima.
76 Ixora coccinea.
77 Punica Granatum.
78 Malpighia punicifolia.
79 Sambucus canadensis.
81 Panax fruticosum.
82 Panax fruticosum.
83 Panax fruticosum.
84 Citrus spec.
85 Tabernaemontana coronaria.
86 Boerhaavea erecta.
87 Boerhaavea hirsuta.
88 Lantana Camara.
89 Lantana involucrata.
90 Trianthema portulacastrum.
91 Anona squamosa.
92 Croton lobatus.
93 Achyranthes obtusifolia.
94 Lonicera japonica.
95 Clerodendron aculeatum.
96 Bauhinia Kappleri.
97 Jasminum undulatum.
98 Gaillardia aristata.
99 Cassia glandulosa.
100 Stenolobium stans.
101 Fourcroya gigantea.
102 Aloe vera.
103 Bromelia pinguin.
104 Phoenix dactylifera.
105 Amarantus paniculatus.
106 Achras sapota.
107 Codiaeum variegatum.
108 Nerium Oleander.
109 Tecoma leucoxylon.
110 Artocarpus incisa.
112 Russelia juncea.
113 Hibiscus Rosa-sinensis.
114 Hippeastrum puniceum.
115 Mariscus brizaeus.
116 Pluchea odorata.
117 Coleus scutellarioides.
119 Angelonia angustifolia.
120 Croton flavens.
121 Althaea officinalis.
122 Foeniculum vulgare.
123 Begonia spec.
124 Codiaeum variegatum.
125 Codiaeum variegatum.
126 Senecio sonchifolius.
127 Cassia fistula.
128 Citharexylum quadrangulare.
129 Ruellia tuberosa.
130 Mangifera indica.
131 Ocimum micranthum.
132 Jatropha gossypifolia.
133 Jatropha gossypifola.
134 Asclepias nivea.
135 Fleurya aestuans.
136 Leonurus sibiricus.
137 Stigmatophyllon periplocifolium.
138 Leonotis nepetaefolia.
139 Melia azedarach.
140 Neurogramme calomelanos.
141 Justicia sessilis.
142 Nicotiana Tabacum.
143 Solanum lycopersicum.

144 Passiflora laurifolia.
145 Erigeron canadensis.
146 Persea americana.
147 Hura crepitans.
148 Phyllanthus distichus.
149 Crescentia Cujete.
150 Pilea microphylla.
151 Opuntia Ficus indica.
152 Opuntia Tuna.
154 Cardiospermum halicacabum.
155 Cissus sicyoides.
156 Cucumis Anguria.
157 Ambrosia hispida.
158 Tephrosia cathartica.
159 Cyperus rotundus.
160 Caesalpinia crista.
161 Rivina humilus.
162 Desmanthus virgatus.
163 Medicago sativa.
164 Ipomoea dissecta.
165 Wedelia buphthalmoides.
166 Beloperone eustachyana.
167 Maranta arundinacea.
168 Nectandra coriacea.
169 Linociera compacta.
170 Cassia glandulosa.
171 Croton astroites.
172 Indigofera suffruticosa.
173 Anona muricata.
174 Piper dilatatum.
175 Psychotria rufescens.
176 Randia aculeata.
177 Myrcia splendens.
178 Bignonia ungius-cati.
179 Polypodium lycopodioides.
180 Pisonia fragans.
181 Pisonia subcordata.
182 Sida cordifolia.
183 Polypodium phyllitidis.
184 Mammea americana.
185 Clusia alba.
186 Cuscuta americana.
187 Chiococca racemosa.
188 Smilax coriacea.
189 Capparis frondosa.
190 Capparis cynophallophora.
191 Capparis cynophallophora.
192 Pilea semidentata.
193 Peperomia glabella.
194 Panicum divaricatum.
195 Anthurium cordatum.
196 Casearia parvifolia.
198 Coccoloba uvifera.
199 Carica Papaya.
200 Bursera simaruba.
201 Mussaenda frondosa.
202 Eucharis grandiflora.
203 Codiaeum variegatum.
204 Codiaeum variegatum.
205 Carica Papaya.
206 Allium ascalonicum.
207 Anacardium occidentale.
209 Phoradendron trinervium.
210*a* Piscidia piscipula.
213 Myrcia splendens.
214 Theobroma Cacao.
215 Caesalpinia coriaria.
216 Hymenaea Courbaril.
217 Quararibea turbinata.
218 Tabernaemontana citrifolia.
218*a* Psychotria horizontalis.
219 Indigofera suffruticosa.
220 Philodendron dispar.
221 Theobroma Cacao.
222 Urera caracasana.
223 Boerhaavea erecta.
223*a* Heliconia Bihai.
224 Chrysobalanus icaco.
225 Pharus glaber.
226 Triphasia trifoliata.
227 Moringa oleifera.
228 Gomphrena globosa.
229 Hibiscus radiatus.

230 Solanum lycopersicum.
231 Bixa Orellana.
232 Boussingaultia baselloides.
233 Ocimum micranthum.
234 Lawsonia inermis.
235 Abrus precatorius.
236 Centrosema virginianum.
237 Rauwolfia Lamarckiana.
239 Mirabilis Jalapa.
240 Mirabilis Jalapa.
241 Codiaeum variegatum.
243 Cosmos sulphureus.
244 Canavalia spec.
245 Caesalpinia coriacea.
246 Chrysobalanus icaco.
247 Mirabilis Jalapa.
248 Antigonon cinerascens.
249 Cenchrus tribuloides.
251 Gossypium barbadense.
252 Stylosanthes hamata.
253 Operculina ventricosa.
254 Melicocca bijuga.
255 Euphorbia thymifolia.
256 Malvastrum spicatum.
258 Ricinus communis.
259 Cassia alata.
260 Petiveria alliacea.
261 Ocimum Basilicum.
263 Solanum aculeatissimum.
264 Eleusine indica.
265 Ipomoea fastigiata.
266 Ipomoea fastigiata.
267 Cucurbita maxima.
268 Achyranthes obtusifolia.
269 Corchorus olitorius.
270 Ipomoea fastigiata.
271 Passiflora suberosa.
272 Vernonia punctata.
274 Oplismenus setarius.
276 Dryopteris parasitica.
277 Ibatia maritima.
278 Setaria setosa.
279 Oplismenus setarius.
280*a* Epidendrum papilionaceum.
281 Epidendrum ciliare.
282 Galactia rubra.
283 Capsicum dulce.
284 Porophyllum ellipticum.
285 Crotalaria retusa.
286 Citrus spec.
287 Andropogon zizanioides.
289 Andropogon Schoenanthus.
290 Sesbania grandiflora.
291 Sesbania grandiflora.
292 Brassica integrifolia.
294 Lawsonia inermis.
295 Tillandsia usneoides.
296 Celosia argentea.
297 Porana paniculata.
298*a* Hymenocallis caribaea.
299 Bouchea Ehrenbergii.
300 Stylosanthes hamata.
301 Spermacoce tenuior.
302 Desmanthus virgatus.
303 Crotalaria verrucosa.
304 Acacia macracantha.
305 Stachytarpheta jamaicensis.
306 Musa paradisiaca.
307 Phaseolus lunatus.
308 Epidendrum ciliare.

Collection Lionarons.

A. C. W. *Lionarons*, gouv. physician of Saba, made in 1907 a collection of about 350 plants and gave it to the Koloniaal Museum at Haarlem. *Dr. M. Greshoff*, Director of this Museum was so kind as to give me an apportanity to study these plants.

The greater part of the plants are cultivated and another part has evidently been collected on the top of the Mountain.
There are some interesting plants, which I myself saw but once during my rambles through Saba.
The following list gives the names of the plants collected by *Lionarons*.

1 Anona muricata.
1*a* Melicocca bijuga.
2 Passiflora laurifolia.
4 Jasminum azoricum.
7 Capsicum frutescens.
8 Capsicum frutescens.
9 Capsicum ceratocarpum.
12 Swietenia Mahagoni.
15 Commelina virginica.
16 Cajanus indicus.
17 Thunbergia fragans.
18 Chrysobalanus icaco.
21 Tillandsia fasciculata.
22 Carica Papaya.
23 Eleusine indica.
24 Beloperone eustachyana.
25 Desmodium supinum.
26 Brassica integrifolia.
28 Cassia bicapsularis.
29 Wedelia buphthalmoides.
30 Ipomoea pentaphylla.
31 Boerhaavea paniculata.
32 Rivina humilis.
33 Amarantus tristis.
34 Pharus glaber.
35 Salvia occidentals.
36 Thunbergia alata.
37 Eryngium foetidum.
39 Peperomia petiolaris.
40 Sonchus oleraceus.
42 Zebrina pendula.
44 Foeniculum vulgare.
46 Antigonon leptopus.
47 Gossypium barbadense.
48 Capparis jamaicensis.
49 Polypodium lycopodioides.
50 Oxalis corniculata.
53 Oplismenus setarius.
55 Canna indica.
56 Parthenium Hysterophorus.
57 Sambucus canadensis.
61 Polypodium crassifolium.
63 Carica Papaya.
64 Ricinus communis.
65 Crescentia Cujete.
66 Crotalaria retusa.
67 Manihot utilissima.
68 Ipomoea fastigiata.
69 Centrosema virginianum.
72 Petiveria alliacea.
74 Lochnera rosea.
75 Abutilon indicum.
76 Ardisia coriacea.
78 Allium ascalonicum.
79 Allium ascalonicum.
80 Portulaca oleracea.
82 Operculina ventricosa.
85 Plumbago capensis.
87 Indigofera suffruticosa.
88 Aleurites moluccana.
90 Lochnera rosea.
91 Tephrosia cathartica.
92 Zinnia elegans.
93 Jasminum azoricum.
95 Parthenium Hysterophorus.
96 Nicotiana Tabacum.
97 Triphasia trifoliata.
99 Punica Granatum.
101 Coccoloba nivea.
103 Peperomia acuminata.

104 Cissus sicyoides.
106 Cuscuta americana.
109 Eugenia Jambos.
110 Quisqualis indica.
111 Hibiscus Rosa-sinensis.
112 Mirabilis Jalapa.
113 Calotropis procera.
114 Mammea americana.
117 Tamarindus indica.
118 Manihot utilissima.
119 Psidium guajava.
123 Lepidium virginicum.
124 Talinum paniculatum.
125 Melia azedarach.
127 Hillia longiflora.
128 Euphorbia hypericifolia.
129 Leucaena glauca.
132 Scleria pterota.
133 Setaria setosa.
134 Stenolobium stans.
135 Ageratum conyzoides.
136 Leucaena glauca.
137 Chiococca racemosa.
140 Myrcia paniculata.
142 Pilea microphylla.
143 Hibiscus schizopetalus.
145 Solanum lycopersicum.
146 Iresine paniculata.
147 Panicum brevifolium.
147b Panicum fuscum.
148 Pisonia aculeata.
149 Persea americana.
151 Tecoma capensis.
153 Gynandropsis pentaphylla.
154 Fleurya aestuans.
155 Argemone mexicana.
156 Mangifera indica.
158 Maranta arundinacea.
159 Piper reticulatum.
159a Piper marginatum.
160 Asclepias nivea.
161 Euphorbia hypericifolia.
162 Cassia occidentalis.
163 Momordica Charantia.
164 Foeniculum vulgare.
165 Epidendrum ciliare.
168 Belamcanda punctata.
169 Phytolacca icosandra.
170 Passiflora laurifolia.
171 Peperomia acuminata.
172 Nephrolepis exaltata.
174 Peperomia hernandifolia.
175 Phytolacca icosandra.
176 Physurus plantagineus.
177 Casuarina equisetifolia.
178 Plantago major.
181 Stenochlaena sorbifolia.
182 Citharexylum quadrangulare.
183 Ardisia coriacea.
184 Scleria pterota.
186 Leucaena glauca.
187 Charianthus crinitus.
188 Hemitelia horrida.
189 Hemitelia horrida.
192 Cecropia peltata.
194 Urera caracasana.
196 Neurogramme calomelanos.
196a Mangifera indica.
197 Charianthus crinitus.
201 Desmodium axillare.
202 Polybotrya cervina.
203 Charanthus crinitus.
204 Polybotrya cervina.
206 Ichnanthus pallens.
208 Cladium restioides.
209 Phytolacca icosandra.
210 Neurolaena lobata.
211 Asplenium serratum.
212 Aspidium Plumierii.
214 Selaginella flabellata.
216 Miconia laevigata.
218 Ipomoea fastigiata.
220 Dryopteris opposita.
221 Colocasia esculenta.

222 Nerium Oleander.
223 Caesalpinia pulcherrima.
224 Codiaeum variegatum.
225 Codiaeum variegatum.
227 Anacardium occidentale.
229 Quisqualis indica.
230 Russelia juncea.
231 Nicotiana Tabacum.
232 Gossypium barbadense.
233 Thespesia populnea.
234 Pluchea odorata.
236 Villamilla octandra.
237 Cassia occidentalis.
238 Phyllanthus distichus.
239 Euphorbia pilulifera.
240 Panicum maximum.
241 Jatropha gossypifolia.
245 Bixa Orellana.
247 Leonotis nepetaefolia.
251 Solanum nigrum nodiflorum.
251*a* Indigofera suffruticosa.
252 Amarantus spinosus.
253 Lantana camara.
254 Achyranthes obtusifolia.
256 Talinum triangulare.
257 Jatropha multifida.
260 Datura fastuosa.
262 Desmodium spirale.
265 Lawsonia inermis.
269 Mussaenda frondosa.
269*a* Porophyllum ellipticum.
270 Rauwolfia Lamarckii.
273 Panicum sanguinale.
276 Cucumis Anguria.
278 Quisqualis indica.
279 Galphimia gracilis.
280 Brunfelsia americana.
281 Murraya exotica.
282 Sanchezia nobilis.
284 Tecoma leucoxylon.
285 Rhoeo discolor.
286 Coleus amboinicus.
287 Anthurium cordatum.
288 Bryophyllum pinnatum.
290 Bursera simaruba.
291 Solanum tuberosum.
292 Bixa Orellana.
293 Wittmackia lingulata.
294 Panicum insulare.
297 Ruellia tuberosa.
298 Thrinax spec.
299 Antigonon leptopus.
301 Caesalpinia coriaria.
302 Mangifera indica.
303 Panicum divaricatum.
303*a* Colocasia esculenta.
306 Miconia laevigata.
309 Chiococca racemosa.
311 Callisia repens.
312 Abrus precatorius.
313 Jatropha gossypifolia.
315 Croton flavens.
316 Blechum Brownei.
320 Salvia serotina.
321 Eugenia Jambos.
322 Colocasia esculenta.
324 Colocasia esculenta.
325 Colocasia esculenta.
328 Petiveria alliacea.
330 Codiaeum variegatum.
330*a* Lochnera rosea.
335 Chrysobalanus icaco.
336 Citharexylum quadrangulare.
337 Casearia parvifolia.
338 Aleurites moluccana.
339 Codiaeum variegatum.
340 Coccoloba diversifolia.
343 Panicum divaricatum.
345 Codiaeum variegatum.
346 Stachytarpheta jamaicensis.
348 Hymenaea Courbaril.
354 Caesalpinia crista.
356 Poinciana regia.

357 Clusia alba.
359 Albizzia lebbek.
360 Coccoloba uvifera.
361 Canna indica.
363 Ipomoea pentaphylla.

Collection I. Boldingh.

I do not think it necessary to give more details about my own excursions; the different data, which are found in the Systematic Part are all taken from my notes and collections made during my rambles.
The following list may give an idea of the localities visited by me. In the Third Part Section C. I give a detailed description of the vegetation also taken from my personal observations.

St. Eustatius: May 25th—July 5th.

May 25th. Signalhill, Tumbledowndickbay.
„ 26th. round the Quill.
„ 27th. Quill.
„ 28th. Seashore near Oranjestad.
„ 29th. Seashore near Oranjestad, Gallowsbay.
„ 30th. Tumbledowndickbay.
„ 31st—June 5th. Quill.
June 6th—8th. Quill.
„ 9th—10th. Cultuurvlakte.
„ 12th. Bengalen—seashore.
„ 13th—14th. Quill near Bengalen.
„ 15th—16th. White Wall and seashore.
„ 17th. Quill.
„ 19th. Cultuurvlakte.
„ 21st. Schotsenhoek, Concordia, Venusbay.
„ 22nd. English Quarter and seashore.
„ 23th. Signalhill.
„ 25th. Cultuurvlakte.
„ 26th. Gilboohill, Venusbay.
„ 27th. Schotsenhoek, Maryglory, Bergje, Jenkinsbay.
„ 28th. Quill.
„ 30th. Jenkinsbay, Bergje.
July 2nd. White Wall.
„ 3rth. Zeelandia, Concordiabay.
„ 5th. Bengalen.

Saba: July 6th—29th.

July 6th. St. John's.
„ 7th. Windwardside, Paris, Great hill.
„ 8th. Bottom.
„ 9th. Bottom to Marypoint.
„ 10th. Boobyhill.
„ 12th. Bottom, Forthbaygut, Saddle.
„ 13th. Hellsgate, Sulphurmines.
„ 14th. Mountain, Crespeenhill.
„ 16th. Mountain.
„ 17th. St. John's, Giles gut.
„ 18th. Windwardside.
„ 19th. Laddergut.
„ 20th. Bottom, Windwardside, Hellsgate, Marypoint.
„ 21st. Springbaygut.
„ 23th. Sulphurmines, Green Island, Flat Point.
„ 24th. Mountain, Windwardside.
„ 25th. Mountain.
„ 26th. Bottom.
„ 27th. Mountain, Hellsgate.
„ 29th. Windwardside, Bottom.

St. Martin: August 14th—September 14th.

August 4th. Filipsburg, Marigot.
„ 6th. Filipsburg, Guanabay.
„ 8th. Filipsburg, Belvedere, Mont Chambord, Grande Case, Marigot, Filipsburg.
„ 17th. Fort Willem.
„ 18th. Prince quarter.
„ 19th. Filipsburg, Cul de Sac, Marigothill, Marigot, Colebay.
„ 20th. Bethlehem.
„ 21st. Nakedboyhill, Fort Willem.
„ 22nd. Simsonsbay, Cherry cap, Anse des Bourgaux.
„ 23th. Fort Willem.
„ 24th. Bellevue.
„ 25th. Hill between Centryhill and Marigothill.
„ 27th. Mont Chambord, Orientbay.
„ 28th. Hills on the north s.de of Cul de Sac.
„ 29th. Filipsburg, Simsonsbay.
„ 30th. Oysterpond.

September 4th. Filipsburg, Grande Case, Milldrumhill.
„ 5th—7th. Anguilla.
„ 8th. Grande Case, Anse des Pères, Marigot, Filipsburg.
„ 10th. District Colombier, Mount Paradis.
„ 11th. Lowlands, Simsonsbaylagoon.
„ 12th. Bethlehem, Mount Paradis.
„ 13th. Green Key, Tintamarre.
„ 14th. Point Blanche, Bethlehem, Cul de Sac.

THIRD PART

PHYTOGEOGRAPHICAL

Section A. Orological, Geological and Meteorological

PHYTOGEOGRAPHICAL

A. Orological, Geological and Meteorological

CHAPTER I

GEOLOGICAL AND OROLOGICAL NOTES.

Introduction.

In making notes on the Geology and Orology of the above mentioned Islands I have made use of the following treatises:

P. T. Cleve. On the Geology of the Northeastern West Indian Islands, Kongl. Vetensk. Akad. Handl. 1870. Bd. 9. no. 12. p. 19 a. f.

A. G. Högbom. Zur Petrographie der Kleinen Antillen. Bull. Geol. Institution of Upsala. VI. 1905. p. 228—229.

E. O. Hovey. Volcanoes of Martinique, Guadeloupe, and Saba. Report 8th Internat. Geogr. Congress. 1904. London, p. 447—451.

E. O. Hovey. Volcanoes of St. Vincent, St. Kitts, and Statia. ibid., p. 452—454.

G. A. F. Molengraaff. De Geologie van St. Eustatius, 1886, Leiden [Dissertat. Utrecht].

G. A. F. Molengraaff. Het Geologisch verband tusschen de West-Indische eilanden, Handelingen van het eerste Nederlandsche Natuur- en Geneeskundig Congres 1888, p. 288.

G. A. F. Molengraaff. Uber vulkanischen Schwefel aus West-Indien. Zeitschr. f. Krystallogr. XIV. 1888, p. 43—48.

J. W. W. Spencer. On the Geological and Physical Development of Anguilla, St. Martin, St. Bartholomew, and Sombrero. Quarterly Journal of the Geological Society of London. 1901. vol. 57. p. 520 a. f.

J. W. W. Spencer. On the Geological and Physical Development of the St. Christopher Chain and Saba Banks. Quarterly Journal of the Geological Society of London, 1901. vol. 57. p. 534. a. f.

K. Sapper. Ein Besuch von St. Eustatius und Saba. Centralblatt für Mineralogie etc. 1903, p. 314—318.

K. Sapper. In den Vulkangebieten Mittel Amerika's und West-Indien. Stuttgart 1905.

It will appear that our geological and orological information about St. Eustatius is sufficient, whereas Saba is all but absolutely unknown in literature, so that almost all that I can communicate rests on my personal observation with the addition of some information borrowed from maps.

St. Martin is somewhat better kwown than Saba but a good description has not yet appeared. The maps from which I borrowed different data ar the following:

St. Eustatius: *Molengraaff* 1886 l. c. pl. I.

Saba: 1. Admiralty Chart surveyed by Lieut. *G. B. Lawrance* 1850. London 1864.

2. West Indies. den Haag. ed. Nov. 1903 by the Navy-Department.

3. A. map of Saba borrowed from one of the inhabitants, evidently made by *G. B. Lawrance* afore said.

St. Martin: 1. West Indies. den Haag. ed. Nov. 1903 by the Navy Department.

2. A map of St. Martin borrowed from Mr. *A. J. C. Brouwer*, Administrator of St. Martin.

3. *Molengraaff* 1888 l. c. p. 288.

4. *C. J. Hudig*, the Saltworks in the Isle of St. Martin. de Ingenieur May 24. 1905.

From these maps it appeared to me that there is reason for calling to mind the words spoken by *Kan*[1]) in 1888: It can „hardly be called superfluous to refer to the value of a good „map.... both for science and practice....

„In time of peace such a map might of course render invaluable „services in agricultural and industrial enter prises, in making

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[1]) *C. M. Kan.* Onze aardrijkskundige kennis van de Molukken. Handelingen van het Eerste Ned. Nat. en Geneesk. Congres. Haarlem 1888. p. 285:

„Het kan schier overbodig geacht worden... op de waarde eener goede kaart... te wijzen. In vredestijd kan zulk een kaart natuurlijk onschatbare diensten bewijzen: bij cultures en industrieele ondernemingen, bij den aanleg van wegen, mijnontginningen, regeling van grondbezit en belastingen, aanleg van openbare en waterstaatwerken, enz. enz.

Doch evengroot is het nut van zulk een kaart voor verschillende beoefenaars der wetenschap, dus niet enkel voor den geograaf. Hebben niet de H.H. *Martin* en *Suringar* op meer dan een der W. I. eilanden het gemis van goede kaarten gevoeld?"

„roads in working mines, in settling landed property and taxes,
„and in public works.
„Still not only for the geographer but also for those who apply
„themselves to any science, such maps are of great use.
„Have not Messrs *Martin* and *Suringar* in more than one of the
„West Indian Islands felt the want of good maps"?
In my rambles I also greatly felt the want of really good maps. By means of panorama photos I tried to see my way in different points of the islands. Probably these photos may not be of any use in making a topographic map, still I dare say they have had for me such results as to hold myself entitled to deviate sometimes from the maps consulted by me. In this way I perhaps contributed a little to obtain a somewhat clearer description of Saba and St. Martin.

St. Eustatius.

The Isle of St. Eustatius extends from 17° 28′ 12″ to 17° 31′ 35″ N. and from 62° 56′ 25″ to 62° 59′ 48″ W.
The greatest length runs from N.W. to S.E. whereas the breadth from S. to W. except a small narrowing in the middle gradually decreases: the length of St. Eustatius amounts to 7.8 km. whereas the breadth in the southern part amounts to 3.7 km. in the middle decreases to 2.6 km. and in the northern part it does not exceed 2.7 km. The Surface is 28 □ km.
The structure of St. Eustatius is occasioned by rocks belonging to one and the same geological period.
Still from their relative age we can sharply trace out two parts viz. the northern hills on one side and the principal vulcano with its eruptions on the other side. These two groups of mountains are clearly separated from each other by a wide plain. The hilly soil taking up the whole northern part of the islands consists of remnants of old vulcanoes.
The southern part chiefly consists of a single very regularly built mountain which has the form of a truncated cone. The highest point of this mountain, named Quill is 581 m. above the level of the sea. On the top of it is found a circular valley shut in on all sides and of which the bottom is 297 m. above the surface of the sea.
The inner slopes of the crater are very steep and in most parts inaccessible on account of numerous perpendicular cliffs; the

slope has here a declivity of 34° to 36° the average slope in other places being 67° to 78°.

The bottom of the crater is in general tolerably flat but uneven on account of the numerous pieces of rock that have fallen down from the sides. The whole surface is covered with a bed of humus.

The fragments of rock that have served in the structure of the crater are for the greater part Augite—Audesite only here and there occurs Hornblende—Augite—Andesite.

The Quill is bordered on all sides by very steep, not seldom perpendicular rocks. The browns of these rocks form a ridge which has a width of only a few m. and the height of which varies between 391 and 581. On the outside the slope of the hill is at first, in general. very steep, but it is gradually declining to shelve away at last in a plain in a northwestern direction or to be suddenly cut off by the steep sea coast. On the southern side only inaccessible rocks called the White Wall, which with a declivity of 45° rising from the sea disturb the regularity of the profile of the mountains.

The second group of mountains taking up the N. W. part of the island consists of a great number of hills of which the highest called „Boven" has a height of 295 m.

The very steep coast that begins near Heiligenbaai bordering the further northern side of the island, is formed by a gigantic, perpendicular wall of lava (Augite—Andesite.)

By a deep ravine Boven is separated from Gilboohill. This hill 174 m high, is formed partly from ashes and partly from solid volcanic matter. The other hilly ground consists out of a number of more or less sharp tops which are connected by a ridge. This ridge runs close to the seashore from Boven to Tumbledowndickbay and extends from there in eastern direction as far as Mary Glory, the highest top of the range. Going eastward from there we perceive that the ground is considerably sloping.

To the northern hills of St. Eustatius belongs also a crater, the exact form of a horse shoe lying south of the Tumbledowndickbay and facing the town. The highest eastern top of this crater is Signalhill (226 m.) the northwestern one is called Pilothill.

As to petrography the northern part of St. Eustatius offers but little variety; the mineral most occurring is Augite—Andesite. Almost the whole northern part of the island is covered with a kind of good humus, produced from volcanic ashes mostly mixed

with lapilli and pumice. The slopes of these hills especially on the seaside are generally very steep, as a rule even inaccessible. Of the plains that are to be found in St. Eustatius only the large one that connects the two mountainous parts is of importance.
If we include in the plain that part only of which the general declivity does not surpass 4 degrees, the extent of it may be estimated at 5 □ km. A small plain at 0.5 □ km. may moreover be found in the Quill whereas there are some level parts in the Concordiavalley and the Venusvalley.
The formation of dells takes place on a small scale. In the northern part of the island are of importance the two large valleys that open upon the Venusbay, the Concordiabay and Tumbledowndickbay.
These valleys are bordered by rocks suddenly rising from the plain. The average declivity of these rocks is seldem less than 30° and often exceeds 50°.
In the southern part of the island few dells are to be found. The outside of the principal volcano is furrowed by numerous, narrow and deep ravines, the so called „guts" which show a beginning of dell formation by erosion.
Running water is found nowhere in St. Eustatius but during the heavy showers that will sometimes fall in the rainy season all aforesaid valleys and ravines are turned into beds of strong currents which by their havy fall and temporary considerable masses of water possess a great force in carrying off.
The coast of St. Eustatius is partly a steep coast partly a flat one bordering the precipices.
A steep coast occurs in the whole northern part except in places where valleys face the sea. In the southern part a steep coast is found on the eastern border ot the White Wall as far as Gallowsbay and moreover in some places east of the White Wall. A flat coast bordering the precipices occurs near Oranje Bay and on the other side of the island near Concordiabay, Turtlebay and further in most places on the south-eastern and southern side. An easily practicable sandy beach, nowhere broader than 50 m. is to be found only near Oranjebay the Concordiabay and Turtlebay.
The beach on the south-eastern side is no more than 10 to 20 m. wide and is covered by pieces of rock worn by the seawater.

Saba.

The isle of Saba extends from 17° 37′ 10″ to 17° 39′ 18″ N. and from 63° 12′ 25″ to 63° 15′ 5″ N.

Round the island may be drawn a parallelogram of which the longer diagonal going from Ladderpoint to Flat Point has a length of 5.25 km.; the other from Torrents Bay to South-East Point 4.5 km. The surfaces is 16 □ km.

In order to get a better insight in the geological condition I collected a number of minerals during my rambles on this island. I am greatly indebted to Prof. Dr. C. E. A. Wichmann at Utrecht for his determination of these minerals. It proved to me that I brought only Andesites except some stones containing sulphur, which, especially with a view to the geological condition of St. Eustatius, was however to be expected.

As far as may result from my observations the rocks rising steeply from the sea consist of Andesites.

The conical mountain (of which Mountain Peak is 880 m. above the sea-level), rising steeply from the sea, perfectly commands the form of the island. Its top lies in the intersection of the mentioned diagonals and ends in an almost sharp summit that, viewed from St. Barthelemy seems somewhat level. To the North this mountain is sloping almost down to the seashore, higher up at an angle of 30° lower it is less steep; only near Flat point there is a tolerably large plain where the sea may be reached.

Also on the other sides of the island the rocks rise from the sea at a steep angle but do not go up to the Mountain top. They rise as far as 300, 400 or 500 m. and end in different cones which seem to rest on the central part of the island at 200—300 m. above the level of the sea.

Southwestward of Mountain Peak there is the small plain where the chief village. The Bottom, is to be found. I estimate its surface at 0.5 □ km.

South East of Mountain Peak lies another plain of still smaller surface where the little village Windwardside is situated about 300 m. above the level of the sea.

On one of the least steep parts of the conical mountain Marypoint, a knot of houses is built N.W. of the Peak at about 400 m. above the sea level whereas a group of houses, Hellsgate is built on a gentle slope N. E. of the Mountain Peak.

So the Bottom is surrounded on all sides by mountain tops and the situation is such as might easily be taken for the bottom of the crater.

In the sulphurmines that extend in the vicinity of Hellsgate near Flat Point, occurs Andesite, changed into Opal.

Here as well as in St. Eustatius there is but little dell formation; very narrow dells, so called „guts" extend in all directions from the mountain top towards the sea. So there are two issuing from the Bottom viz. Ladder gut and Forthbaygut. Hellsgategut is one of the most characteristic and especially at the seashore wider than the others; all ravines abound in big stones.
Except near Flat Point and the immediate vicinity there is every where a steep coast in front of which are found bowlder stones to a height of 2 m.
The Mountain Peak and neighbouring tops are covered with a thick bed of humus; going downward it is getting gradually thinner and on the proper arable land on the steep slopes it must be heaped up in many places, whereas in more favorable places the immense quantity of stones must be removed. In the neighbourhood of the sulphurmines the soil consists of very fine tuff.

St. Martin.

The isle of St. Martin extends from 18° to 18° 7′ 20″ N. and from 63° 1′ 20″ to 63° W. The greatest distance in the direction N. to S. is 13.5 km. and from W. to E. 15 km. The surface (the large lagoons not included) is about 90 □ km.
Te form of St. Martin is chiefly commanded by a number of ridges that extend in the direction from N. to S.; the eastern ridge is running pretty near the shore from Oysterpond to Point Blanche (Nackedboyhill 280 m.).
A valley 2.5 km. wide separates this ridge from the other mountainous land of the Island. This mass of hills reaches in Mount Paradis (412 m.) its highest point and in all directions extend ridges of which Mont Chambord, Mont Vernon and Milldrumhill (380 m.) end very near the seashore in the nortwestern part of the Island; separated from it by a cross valley there is somewhat lower hilly country in the northern part of St. Martin. Two ridges extend from Mount Paradis to the District Colombier, whereas the two largest ranges separate Cul de Sac from the large plain and Colebay District. The ridge of hills between Cul de Sac and the plain ends in Fort Willem and Fort Amsterdam: the highest tops are 250 m. above the sea level. The largest ridge of hills east of Cul de Sac rises in Centryhill to 408 m.
Of great importance in the structure of St. Martin is a sedimentary formation, visible to the naked eye (Pointe Blanche for-

mation) consisting alternately out of Breccia, Sandstone and Limestone with a large proportion of Flint.

In general the Pointe Blanche formation covers the northern slope of the large range of hills and the south eastern slope of the small range. These older sedimentary layers are probably of Cretaceous origin. Later sediments have but a short extension on St. Martin. On the promontary near Simsonsbay a hard limestone is found which perhaps is Miocene.

The Lowlands separated by Simsonsbaylagoon from the other part of the Island is almost flat with some hills of which the highest rises to about 90 m. and consist for the greater part of a horizontal layer of soft marly limestone: it is of Miocene age and quite resembles the Miocene formation of Anguilla.

The minerals I brought from this island were also determined by Prof. Wichmann and proved to contain nothing particular for this island; I only mention gypsum, which I found on Green Key.

Plains of some importance are found between the eastern and western ridges of hills, in the southern part (Prince quarter) however bordered by a few isolated conical hills. By a gentle slope the plain gradually passes into the western ridge of hills. Cul de Sac as an important plain is bounded on the east-northern- and western side by rather steep hills; especially Centryhill and surrounding is much more steep than the other part of the hilly country of St. Martin.

The principal rocks of the Island are composed of Quartz-diorite, Mica-diorite or Phonalite; the part that is exposed to view is generally found unchanged only on the seacoasts. In the large plain it is broken up 1 m. deep into a coarse-grained sand, containing a large proportion of mica. It was not however regularly crumbled down for there are a great many conical parts that resisted the breaking up. These continued to stand out when the wasted part was carried down by the water. So the plain contains for the greater part an abundance of fragments of rocks of considerable dimension. They form a real „Felsenmeer" as is frequently met with on granitic soil.

Further there are some pieces of flat land between the ends of the different ridges of the hilly country between Grande Case and Marigot.

In some places from Bethlehem to Mount Paradis deep valleys are found whereas the valley in the District Colombier is one of the few spots in St. Martin where a typical tropical vegetation is met with. Especially here in the District Columbier and also near

Mont Chambord are some small currents when the weather is not too dry.
The larger valleys open on a bay and there the coast is flat whereas almost everywhere else a rather steep coast is to be found.
The size of these bays is in direct proportion to the plains that end in them. The larger bays are separated from the sea by shoals and the inner seas thus formed are made use of as Saltponds.
The largest bays are found near the transversal valley Grande Case, near Orientbay and at Filipsburg, which is built on a sandbank.

General notes.

Whereas the map added indicates the distances between the islands, the following may serve to inform.
Cleve [1]) says: „The islands north of Guadeloupe from two parallel „chains from North-west to South-east. The western chain com- „mences with Saba and consists of St. Eustatius, St. Kitts, Nevis, „Redonda and Montserrat. All of those islands are volcanoes and „if the line were extended farther to the north it would reach „the island of Amegada, of postpliocäne date and all the volca- „noes seem to be of the same or nearly the same geological time. „East of the volcanic range is another completely different range „of islands. They are not volcanic and commence with Sombrero „comprising Anguilla, St. Martin, St. Bartholomew, Barbuda and „Antigua. All of these islands are of the tertiary age, eocene, mio- „cene and pliocene."
Although I do not agree with *Cleve* here. who wants to separate the group of St. Martin from the Virgin Islands and denies as such, that a connection might have existed between the great Antilles and the group St. Martin I want to state that we see clearly mentioned here how wide a difference there exists between the two groups the St. Martin plateau and the Christoffer chain.

About the connection between Anguilla and St. Martin *Spencer* [2]) says:
„The same limestone (we find in St. Martin) also occurs a short

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[1]) Cleve: On the Geology of the Northeastern West Indian Islands p. 19.
[2]) Spencer: On the Geological and Physical Development of Anguilla, St. Martin, St. Bartholomew and Sombrero p. 526.

„distance away in the island of Anguilla, which was once evi-
„dently a part of the coastal plain extending from the mountains
„of St. Martin. Tintamarre, an adjacent outlier of St. Martin, re-
„presents a fragment of the dissected coastal plain. It is underlain
„by the same white limestones."

According to Spencer the various heights and depths of the different groups of St. Martin plateau and St. Christoffer chain seem to agree. As to the connection between the Caribean isles he says [1]:

„.... if this inference be true, then the modern islands of the
„West Indies formed an elevated plateau bridge between the two
„Americas during the two epochs of elevation, namely in the
„Pliocäne and Pleistocäne period."

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1) Spencer: Reconstruction of the Antillean Continent p. 132.

CHAPTER II

METEOROLOGICAL NOTES.

There is not much known about the climate of the Dutch West Indian Islands.
As they form part of the Caribean Islands it will be sufficient for me to give all I found about the climate of these Islands in Hann, Handbuch der Meteorologie, 2e Aufl. Stuttgart 1897.
The direction of the winds does not change very much and throughout the year there is generally the N. E. tradewind.
The amount of rain is mostly about 1200—2000 mm. a year; the maxima of rainfall are in May and October; the dry months are February and March. The mean temperature varies from 24—26° in January and 26—28° in July.
The following list shows the quantity of rain that will fall on the Dutch West Indian Islands and the neighbouring Islands St. Croix and St. Kitts.

Rainfall in mm. of the West Indian Islands St. Croix, St. Kitts, St. Eustatius, Saba and St. Martin.

	Average quantity.					1906. [4]		
	St. Croix [1]	St. Kitts. [2]	St. Eustatius. [3]	Saba. [3]	St. Martin. [3]	St. Martin.	Saba.	St. Eustatius.
January	72	103	63	61	60	56	100	31
February	61	48	43	28	41	16	71	46
March	24	55	40	21	33	55	67	31
April	77	90	60	32	70	17	38	36
May	79	98	106	89	118	23	18	27
June	126	92	96	78	80	123	53	124
July	191	105	118	121	85	70	65	66
August	112	144	126	143	116	83	30	61
September	123	154	139	189	145	368	465	419
October	156	173	121	123	128	48	66	66
November	181	134	131	162	139	137	88	98
December	82	96	82	72	69	214	223	148
Total	1284	1294	1125	1119	1084	1213	1282	1159

[1]) and [2]) from Hann l. c.
[3]) from Went Rapport l. c.
[4]) from Inspectie van den Landbouw in West-Indie. Meteorologische Waarnemingen gedaan op de Meteorologische stations in de koloniën Suriname en Curaçao in het jaar 1906.

As appears from the preceding list there is a great harmony about the data concerning the rainfall on the different Islands and especially when we take in consideration that the first data about the rainfall in the Dutch West Indian Islands are most probably not so accurate as the last, there is almost the same amount of rain on each of them.

Moreover I am sure (and here I quite agree with what Went says in his Report) that the quantity of rain that falls on the higher parts of the Mountain in St. Eustatius and Saba is much more than elsewhere on these Islands.

THIRD PART

Section B. Distribution of the Wild Plants enumerated in the First Part

B. Distribution of the Wild Plants enumerated in the First Part

CHAPTER I

DISTRUBUTION OF ALL THE WILD PLANTS ENUMERATED IN THE FIRST PART.

	Both hemisph.	Continent of America.	Southern Florida.	Atlantic Islands.	Antilles.	Total.
Hymenophyllaceae	. . .	2	. . .	. . .	. . .	2
Cyatheaceae	. . .	4	. . .	. . .	. . .	4
Polypodiaceae	13	22	. . .	. . .	2	37
Gleicheniaceae	. . .	1	. . .	. . .	. . .	1
Ophioglossaceae	1	. . .	. . .	. . .	. . .	1
Lycopodiaceae	1	1	. . .	. . .	. . .	2
Psilotaceae	1	. . .	. . .	. . .	. . .	1
Selaginellaceae	. . .	2	. . .	. . .	. . .	2
Potamogetonaceae	. . .	. . .	. . .	1	. . .	1
Gramineae	23	19	. . .	. . .	4	46
Cyperaceae	8	5	1	. . .	2	16
Araceae	. . .	. . .	. . .	. . .	4	4
Lemnaceae	1	. . .	. . .	. . .	. . .	1
Bromeliaceae	. . .	6	. . .	. . .	4	10
Commelinaceae	1	3	. . .	. . .	. . .	4
Liliaceae	1	1	. . .	. . .	3	5
Amaryllidaceae	. . .	4	1	. . .	. . .	5
Dioscoreaceae	1	1	. . .	. . .	. . .	2
Musaceae	. . .	1	. . .	. . .	. . .	1
Orchidaceae	. . .	11	. . .	1	4	16
Piperaceae	. . .	11	. . .	. . .	3	14
Batidaceae	1	. . .	. . .	. . .	. . .	1
Ulmaceae	. . .	2	. . .	1	. . .	3
Moraceae	. . .	2	. . .	1	3	6
Urticaceae	1	3	. . .	1	3	8
Loranthaceae	. . .	1	. . .	. . .	. . .	1

	Both hemisph.	Continent of America.	Southern Florida.	Atlantic Islands.	Antilles.	Total.
Olacaceae	. . .	1	. . .	. . .	. . .	1
Aristolochiaceae	. . .	1	. . .	. . .	. . .	1
Polygonaceae	. . .	1	. . .	3	2	6
Chenopodiaceae	3	. . .	. . .	. . .	. . .	3
Amarantaceae	5	4	1	1	1	12
Nyctaginaceae	1	6	. . .	. . .	1	8
Phytolaccaceae	. . .	5	. . .	. . .	. . .	5
Aizoaceae	2	1	. . .	. . .	. . .	3
Portulacaceae	2	4	. . .	. . .	1	7
Caryophyllaceae	1	. . .	. . .	. . .	. . .	1
Menispermaceae	1	. . .	. . .	. . .	1	2
Anonaceae	1	3	. . .	. . .	. . .	4
Lauraceae	1	1	. . .	. . .	2	4
Papaveraceae	1	. . .	. . .	. . .	. . .	1
Cruciferae	1	2	. . .	. . .	. . .	3
Capparidaceae	2	6	. . .	. . .	. . .	8
Moringaceae	1	. . .	. . .	. . .	. . .	1
Crassulaceae	1	. . .	. . .	. . .	. . .	1
Rosaceae	1	2	. . .	. . .	. . .	3
Leguminosae	32	22	. . .	1	5	60
Oxalidaceae	1	. . .	. . .	. . .	. . .	1
Erythroxylaceae	. . .	. . .	. . .	. . .	2	2
Zygophyllaceae	1	2	. . .	. . .	. . .	3
Rutaceae	3	1	. . .	2	1	7
Simarubaceae	1	. . .	. . .	1	1	3
Burseraceae	. . .	1	. . .	. . .	. . .	1
Meliaceae	1	1	. . .	. . .	. . .	2
Malpighiaceae	. . .	5	. . .	1	4	10
Euphorbiaceae	9	9	3	3	8	32
Anacardiaceae	3	. . .	. . .	. . .	1	4
Celastraceae	. . .	2	. . .	1	1	4
Sapindaceae	2	2	. . .	1	. . .	5
Rhamnaceae	1	1	2	. . .	. . .	4
Vitaceae	. . .	1	. . .	. . .	1	2
Tiliaceae	4	1	. . .	1	. . .	6
Malvaceae	11	5	. . .	. . .	. . .	16

	Both hemisph.	Continent of America.	Southern Florida.	Atlantic Islands.	Antilles.	Total.
Bombacaceae	1	1	. . .	. . .	. . .	2
Sterculiaceae	2	5	. . .	. . .	. . .	7
Ochnaceae	1	. . .	. . .	. . .	. . .	1
Marcgraviaceae	. . .	1	. . .	. . .	. . .	1
Theaceae	. . .	1	. . .	. . .	1	2
Guttiferae	. . .	2	. . .	. . .	2	4
Bixaceae	. . .	1	. . .	. . .	. . .	1
Canellaceae	. . .	. . .	1	. . .	. . .	1
Flacourtiaceae	. . .	2	. . .	1	1	4
Turneraceae	. . .	2	. . .	. . .	. . .	2
Passifloraceae	. . .	5	. . .	. . .	. . .	5
Begoniaceae	. . .	. . .	. . .	. . .	1	1
Cactaceae	1	3	. . .	1	2	7
Thymelaeaceae	. . .	. . .	. . .	. . .	1	1
Rhizophoraceae	. . .	1	. . .	. . .	. . .	1
Combretaceae	2	. . .	. . .	. . .	. . .	2
Myrtaceae	1	5	4	1	4	15
Melastomataceae	. . .	4	. . .	. . .	1	5
Umbelliferae	. . .	1	. . .	. . .	. . .	1
Theophrastaceae	. . .	. . .	. . .	1	1	2
Myrsinaceae	. . .	1	. . .	. . .	1	2
Plumbaginaceae	. . .	1	. . .	. . .	. . .	1
Sapotaceae	. . .	2	1	. . .	3	6
Symplocaceae	. . .	. . .	. . .	. . .	1	1
Oleaceae	. . .	1	. . .	. . .	1	2
Loganiaceae	. . .	1	. . .	. . .	. . .	1
Gentianaceae	. . .	1	. . .	. . .	. . .	1
Apocynaceae	1	2	. . .	. . .	2	5
Asclepiadaceae	2	. . .	. . .	. . .	2	4
Convolvulaceae	4	9	. . .	. . .	3	16
Hydrophyllaceae	. . .	1	. . .	. . .	. . .	1
Borraginaceae	2	4	1	2	6	15
Verbenaceae	4	7	. . .	. . .	. . .	11
Labiatae	5	2	1	. . .	. . .	8
Solanaceae	9	4	. . .	. . .	3	16
Scrophulariaceae	1	2	. . .	. . .	. . .	3

	Both hemisph.	Continent of America.	Southern Florida.	Atlantic Islands.	Antilles.	Total.
Bignoniaceae	. . .	4	. . .	. . .	. . .	4
Gesneriaceae	. . .	. . .	. . .	. . .	2	2
Lentibulariaceae	. . .	1	. . .	. . .	. . .	1
Acanthaceae	2	2	. . .	1	2	7
Plantaginaceae	1	. . .	. . .	. . .	. . .	1
Rubiaceae	3	13	1	4	4	25
Cucurbitaceae	2	3	. . .	. . .	. . .	5
Goodeniaceae	. . .	. . .	. . .	1	. . .	1
Compositae	17	14	1	2	6	40
Total	207	301	18	34	114	674
	508			148		
			166			

I have enumerated in the Systematic Part 806 species; 132 of these are cultivated, and as will be seen from the list before given there are 674 wild plants, 166 of these are West Indian plants, of which 114 only are known on the Antilles. Another 34 are distributed in the Antilles and the other Atlantic Islands, whereas 18 are to be found both in the Antilles, the other Atlantic Islands and Southern Florida. From the 508 plants that are not restricted to the West Indies, there are 301 that occur on the Continent of America, whereas another 207 are to be found as well in the Continent of America as in the Old world.

From the plants enumerated in the Systematic Part there are 550 named in *Grisebach*: Flora of British West Indian Islands. I could make out by what I found in *Grisebach*: Die geographische Verbreitung der Pflanzen West Indiens, that from these 550 plants there are about 180 indigenous in the Antilles and the Bahamas.

When the results given by *Grisebach* in 1865 had not been changed by more recent investigations on the Flora of the West Indian Islands than the number of indigenous plants I

enumerate is this Flora ought to be between 180 and 304 = (180 + 124). As it appears that my number is but 148, it is evident that the data we had in 1865, abouth the West Indian plants have changed by the newer collections we have got from the West Indies and the neighbouring countries.
Whereas I draw this conclusion from our knowledge about the Dutch West Indian Islands so I believe that a similar study of the other Antilles would show us that there would be a still greater difference between what we know now and what *Grisebach* stated as the result of his studies on the West Indies in 1865.

In order to show that there is probably not a very large number of plants of the Dutch Antilles St. Eustatius, Saba and St. Martin that might have been overlooked by *Suringar* and myself I give the next list where I compare the numbers of the species from the larger families of the Island of St. Croix (*Eggers*: Flora of St. Croix and the Virgin Islands, 1879) and the Dutch West Indian Islands above named.

	Dutch West Indian Islands.	St. Croix.
Leguminosae	60	57
Gramineae	46	39
Compositae	40	36
Polypodiaceae	37	34
Euphorbiaceae	32	33
Rubiaceae	25	26
Moraceae, Ulmaceae, Urticaceae	17	14
Convolvulaceae	16	27
Cyperaceae	16	18
Malvaceae	16	25
Solanaceae	16	13
Borraginaceae	15	20
Myrtaceae	15	22
Caryophyllaceae, Portulaceae	12	10
Amarantaceae	12	13

The following list may give any idea about the percentage of the species of the larger families in the Flora of the Islands St. Eustatius, Saba and St. Martin.

Leguminosae	9 %
Gramineae	6.5 %
Compositae	6 %
Polypodiaceae	5.5 %
Euphorbiaceae	4.5 %
Rubiaceae	3.5 %
Borraginaceae	2.5 %
Convolvulaceae	2.5 %
Cyperaceae	2.5 %
Malvaceae	2.5 %
Myrtaceae	2.5 %
Orchidaceae	2.5 %
Piperaceae	2.5 %
Solanaceae	2.5 %

As may be seen from the following list there is no great difference between the numbers of plants known from each of the Islands St. Eustatius, Saba and St. Martin.

St. Eustatius	Saba	St. Martin	249
St. Eustatius	Saba		91
St. Eustatius		St. Martin	65
	Saba	St. Martin	26
St. Eustatius			59
	Saba		100
		St. Martin	84
464	456	424	674

CHAPTER II

DISTRIBUTION OF THE PLANTS KNOWN ON THE ANTILLES ONLY ENUMERATED IN THE FIRST PART.

	Cuba.	Jamaica.	Haiti.	Portorico.	St Thomas.	St. Jan.	St. Croix.	Anguilla.	St. Martin.	Saba.	St. Barthélemy.	St. Eustatius	St. Kitts.	Barbuda.	Montserrat.	Antigua.	Guadeloupe.	Dominica.	Martinique.	St. Lucia.	St. Vincent.	Barbados.	Grenada.	Tobago.	Trinidad.	
Aspidium Plumierii	—	—	—	×	—	—	—	—	—	×	—	×	—	—	—	—	×	×	×	—	×	—	×	×		
Diplazium semihastatum			—	×	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	
Andropogon contortus	—	—	—	—	—	—	—	—	—	—	—	×	—	—	—	×	×	—	—	—	—	—	—	—	—	
Isachne arundinacea	—		—	×	—	—	—	—			—	—		—	—	—			×	—		—	×	—	—	
Panicum diffusum	×	×	×	—	×	×	×	×	×	—	×	×	—	—	—	×	×	—	×	—	—	—	—	—	—	
Mariscus capillaris	×	×	×	—	—	—	×	×	×	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cladium restioides	×	—	×	—	—	—	—	—	—	×	—	—		—	×	—	×	×	×	—	×	—	—	—	—	
Anthurium cordatum	—	×	—	—	—	—	×	—	×	×	—	×	×	—	—	—	—	—	×	—	—	—	—	—	—	
Philodendron dispar	—	—	—	—	—	—	—	—	—	×	—	×	—	—	—	—	×	—	×	—	×	—	—	—	—	
Philodendron giganteum	—	—	—	—	—	—	—	—	—	×	—	×	×	—	—	—	×	—	×	—	×	—	—	—	—	
Wittmackia lingulata	—	—	—	—	×		—	—			—	—	—	—	—			—	×		×	—	—	×		1, 2, 3, 4.
Pitcairnia augustifolia	—	—	—			—	×	—	—	×	—	×	—	—	—	×		×				—	×	—	—	
Tillandsia excelsa		×	—	—	—	—	—	—	—	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Vriesea guadalupensis	—	—	—	—	—	—	—	—	—	×	—	×	—	—	—	—	×	—	—	—	—	—	—	—	—	
Yucca aloifolia		×	×	—	—	—	—	—	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	×	—	
Smilax coriacea	—	—			—	—		—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	

	Cuba.	Jamaica	Haïti.	Portorîco.	St. Thomas.	St. Jan.	St. Croix.	Anguilla.	St. Martin.	Saba.	St. Barthélemy.	St. Eustatius,	St. Kitts.	Barbuda.	Montserrat.	Antigua.	Guadeloupe.	Dominica.	Martinique.	St. Lucia.	St. Vincent.	Barbados.	Grenada.	Tobago.	Trinidad.
Smilax ilicifolia	×																								
Physurus hirtellus																									
Physurus plantagineus	×	×	×																						
Microstylis spicata	×																								
Piper reticulatum																									
Peperomia emarginella																									
Peperomia Langsdorffii		×	×	×	×																				
Ficus Krugiana																									
Ficus omphallophora																									
Ficus Urbaniana																									
Pilea obtusata																									
Pilea semidentata																									
Boehmeria ramiflora																									
Coccoloba nivea																									
Alternanthera crucis																									
Pisonia subcordata																									
Portulaca poliosperma																									
Hyperbaena domingensis																									
Phoebe elongata																									
Nectandra Krugii																									
Inga laurina																									
Caesalpinia ciliata																									

	Cuba.	Jamaica.	Haiti.	Portorico.	St. Thomas.	St. Jan.	St. Croix.	Anguilla.	St. Martin.	Saba.	St. Barthélemy.	St. Eustatius.	St. Kitts.	Barbuda.	Montserrat.	Antigua.	Guadeloupe.	Dominica.	Martinique.	St. Lucia.	St. Vincent.	Barbados.	Grenada.	Tobago.	Trinidad.
Galactia dubia																									
Galactia longifolia																									
Galactia nummularia																									
Galactia rubra																									
Erythroxylum brevipes																									
Erythroxylum havanense																									
Fagara martinicensis																									
Fagara trifoliata																									
Picrasma antillana																									
Stigmatophyllon periplocifolium																									
Stigmatophyllon sericeum																									
Malpighia angustifolia																									
Croton astroites																									
Ditaxis fasciculata																									
Bernardia corensis																									
Adella ricinella																									
Acalypha Poiretii																									
Euphorbia articulata																									
Euphorbia petiolaris																									
Pedilanthus tithymaloides																									
Comocladia ilicifolia																									
Maytenus elliptica																									

	Cuba.	Jamaica.	Haiti.	Portorico.	St. Thomas.	St. Jan.	St. Croix.	Anguilla.	St. Martin.	Saba.	St. Barthélemy.	St. Eustatius.	St. Kitts.	Barbuda.	Montserrat.	Antigua.	Guadeloupe.	Dominica.	Martinique.	St. Lucia.	St. Vincent.	Barbados.	Grenada.	Tobago.	Trinidad.
Galactia dubia	6, 7.																								
Galactia longifolia	7.																								
Galactia nummularia																									
Galactia rubra																									
Erythroxylum brevipes					8.																				
Erythroxylum havanense																									
Fagara martinicensis						6.																			
Fagara trifoliata																									
Picrasma antillana																									
Stigmatophyllon periplocifolium																									
Stigmatophyllon sericeum																									
Malpighia angustifolia																									
Croton astroites																									
Ditaxis fasciculata																									
Bernardia corensis																									
Adella ricinella																									
Acalypha Poiretii																									
Euphorbia articulata																									
Euphorbia petiolaris																									
Pedilanthus tithymaloides																									
Comocladia ilicifolia																									
Maytenus elliptica																									

	Cuba.	Jamaica.	Haiti.	Portorico.	St. Thomas.	St. Jan.	St. Croix.	Anguilla.	St. Martin.	Saba.	St. Barthélemy.	St. Eustatius.	St. Kitts.	Barbuda.	Montserrat.	Antigua.	Guadeloupe.	Dominica.	Martinique.	St. Lucia.	St. Vincent.	Barbados.	Grenada.	Tobago.	Trinidad.
Galactia dubia	6, 7.																								
Galactia longifolia	7.																								
Galactia nummularia																									
Galactia rubra																									
Erythroxylum brevipes					8.																				
Erythroxylum havanense																									
Fagara martinicensis						6.																			
Fagara trifoliata						7.																			
Picrasma antillana						9.																			
Stigmatophyllon periplocifolium																									
Stigmatophyllon sericeum																									
Malpighia angustifolia																									
Croton astroites																									
Ditaxis fasciculata																									
Bernardia corensis																									
Adella ricinella																									
Acalypha Poiretii																									
Euphorbia articulata																									
Euphorbia petiolaris																									
Pedilanthus tithymaloides																									
Comocladia ilicifolia																									
Maytenus elliptica																									

	Cuba.	Jamaica.	Haiti.	Portorico.	St. Thomas.	St. Jan.	St. Croix.	Anguilla.	St. Martin.	Saba.	St. Barthélemy.	St. Eustatius.	St. Kitts.	Barbuda.	Montserrat.	Antigua.	Guadeloupe.	Dominica.	Martinique.	St. Lucia.	St. Vincent.	Barbados.	Grenada.	Tobago.	Trinidad.
Galactia dubia	6, 7.																								
Galactia longifolia	7.																								
Galactia nummularia																									
Galactia rubra																									
Erythroxylum brevipes					8.																				
Erythroxylum havanense																									
Fagara martinicensis						6.																			
Fagara trifoliata						7.																			
Picrasma antillana						9.																			
Stigmatophyllon periplocifolium																									
Stigmatophyllon sericeum																									
Malpighia angustifolia																									
Croton astroites																									
Ditaxis fasciculata																									
Bernardia corensis																									
Adella ricinella																									
Acalypha Poiretii																									
Euphorbia articulata																									
Euphorbia petiolaris																									
Pedilanthus tithymaloides																									
Comocladia ilicifolia																									
Maytenus elliptica																									

	Cuba.	Jamaica.	Haiti.	Portorico.	St. Thomas.	St. Jan.	St. Croix.	Anguilla.	St. Martin.	Saba.	St. Barthélemy.	St. Eustatius.	St. Kitts.	Barbuda.	Montserrat.	Antigua.	Guadeloupe.	Dominica.	Martinique.	St. Lucia.	St. Vincent.	Barbados.	Grenada.	Tobago.	Trinidad.
Galactia dubia	6, 7.																								
Galactia longifolia	7.																								
Galactia nummularia																									
Galactia rubra																									
Erythroxylum brevipes					8.																				
Erythroxylum havanense																									
Fagara martinicensis						6.																			
Fagara trifoliata						7.																			
Picrasma antillana						9.																			
Stigmatophyllon periplocifolium																									
Stigmatophyllon sericeum																									
Malpighia angustifolia																									
Croton astroites																									
Ditaxis fasciculata																									
Bernardia corensis																									
Adella ricinella																									
Acalypha Poiretii																									
Euphorbia articulata																									
Euphorbia petiolaris																									
Pedilanthus tithymaloides																									
Comocladia ilicifolia																									
Maytenus elliptica																									

	Cuba.	Jamaica.	Haiti.	Portorico.	St. Thomas.	St. Jan.	St. Croix.	Anguilla.	St. Martin.	Saba.	St. Barthelemy.	St. Eustatius.	St. Kitts.	Barbuda.	Montserrat.	Antigua.	Guadeloupe.	Dominica.	Martinique.	St. Lucia.	St. Vincent.	Barbados.	Grenada.	Tobago.	Trinidad.	
Cissus obovata	—	—	—	×	—	—	×	—	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Freziera undulata	—	—	—	—	—	—	—	—	—	×	—	—	×	—	×	—	×	×	—	×	×	—	×	—	×	
Marila racemosa	—	—	—	—	—	—	—	—	—	×	—	—	—	—	—	—	×	×	×	—	×	—	—	—	—	
Clusia alba	—	—	—	—	—	—	×	—	—	×	—	×	×	—	—	—	×	×	×	—	—	—	—	—	—	
Samyda serrulata	—	—	×	×	×	—	×	—	×	—	×	×	—	—	—	×	—	—	—	—	—	—	—	—	×	
Begonia domingensis	—	—	×	—	—	—	—	—	—	×	—	×	—	—	—	—	—	×	—	—	—	—	—	—	—	
Daphnopsis caribaea	—	—	—	×	×	—	×	—	×	×	—	×	×	—	—	—	×	×	×	—	—	—	—	—	—	12.
Myrcia splendens	×	×	×	×	×	—	—	—	×	×	—	×	—	—	—	—	×	—	×	×	×	—	—	×	×	
Calyphanthes Boldinghii	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Eugenia cordata	—	—	[illegible]	[illegible]	×	×	×	—	—	—	—	×	—	—	—	[illegible]	—	—	[illegible]	[illegible]	×	—	—	—	—	4, 5, 13.
Eugenia procera	×	×	×	×	×	×	×	—	×	×	—	×	—	—	—	×	—	—	×	—	×	—	—	×	—	
Jacquinia armillaris	×	[illegible]	[illegible]	[illegible]	[illegible]	×	×	—	[illegible]	—	[illegible]	[illegible]	—	—	×	—	×	×	—	—	×	×	[illegible]	×	—	10, 13. 14, 15.
Ardisia coriacea	—	—	—	[illegible]	[illegible]	×	[illegible]	—	—	×	—	×	—	—	—	—	[illegible]	[illegible]	[illegible]	[illegible]	—	—	—	—	—	5.
Lucuma multiflora	—	—	—	×	×	—	×	—	—	×	—	—	×	—	×	—	×	—	×	×	×	×	—	×	—	
Bumelia obovata	—	[illegible]	×	×	[illegible]	—	×	—	×	×	[illegible]	[illegible]	—	—	[illegible]	[illegible]	[illegible]	—	[illegible]	[illegible]	—	—	—	—	—	5, 6.
Chrysophyllum argenteum	×	—	[illegible]	—	—	—	—	—	×	—	—	—	—	—	[illegible]	[illegible]	[illegible]	×	[illegible]	—	×	[illegible]	[illegible]	—	×	7.
Symplocos martinicensis	—	—	—	×	[illegible]	—	—	—	—	×	—	[illegible]	×	—	[illegible]	—	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	—	[illegible]	—	×	
Forestiera Eggersiana	—	—	—	—	×	—	—	—	×	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Plumiera alba	—	—	—	×	[illegible]	—	[illegible]	×	×	×	—	[illegible]	—	—	—	—	[illegible]	—	×	×	—	[illegible]	[illegible]	—	—	
Urechites suberecta	×	×	×	×	×	—	×	×	×	×	—	×	×	—	—	—	—	—	—	—	—	—	—	—	—	
Ibatia maritima	—	—	×	—	[illegible]	—	×	—	[illegible]	—	—	×	—	—	—	×	[illegible]	[illegible]	[illegible]	—	×	—	—	—	—	
Jacquemontia pentantha	—	—	—	×	×	—	—	—	—	×	—	×	—	×	—	×	—	×	—	×	×	×	—	—		4.

	Cuba.	Jamaica.	Haïti	Portorico.	St. Thomas.	St. Jan.	St. Croix	Anguilla.	St. Martin.	Saba.	St. Barthelemy.	St. Eustatius.	St. Kitts.	Barbuda.	Montserrat.	Antigua.	Guadeloupe.	Dominica.	Martinique.	St. Lucia.	St. Vincent.	Barbados.	Grenada.	Tobago.	Trinidad.	
Ipomoea arenaria		–	–	×	×	–	×	–	×	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
Ipomoea sphenophylla	–	–	–	–	–	–	–	–	–	–	–	×	–	–	–	–	–	–	–	–	–	–	–	–	–	
Cordia salvifolia	–	–	–	–	–	–	–	–	–	×	–	×	–	–	–	–	×	–	×	–	–	–	–	–	–	
Cordia sulcata	–	×	×	×	×	–	×	–	–	×	–	×	–	–	–	–	×	×	×	×	×	×	–	–	–	
Cordia tremula	–	–	–	–	–	–	–	–	–	×	–	–	–	–	–	×	–	–	×	–	×	–	×	–	–	
Rochefortia acanthophora	–	–	–	×	–		–	–		–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	
Tournefortia caribaea	–	–	–	–	–	–	–	–	–		–	–	–	–	–	–	–	×	–		×	–	–	–	–	
Tournefortia foetidissima	–	–	×	×	–	–	×	–	×	×	–	×	–	–	–	–	×	×	×	–	–	–	–	–	–	
Lycium americanum		–		–	–	–	–	×		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
Solanum racemotum	–	–	–	–	×		×	–	×	×	–		–	–	–	–	×	×	×	–	×		–	–	–	6, 7, 9.
Cestrum laurifolium	×	–				×		–	–		–	×	–	–	×	×	×	×	×	–			–	–		
Besleria lutea	–	×	–	–	–	–	–	–	–	×	–	×	–	–	–	–	×	×	×	×	×	–	×	–	–	
Gesneria ventricosa	–	×	–	–	–	–	–	–	–	×	–	×	×	–	×	–	×	×	×	×	×	–	–	–	–	
Justicia sessilis	–	–				–	×		×	×	–		–	–	–	–	×	×	–	–		–	–	–	–	
Beloperone eustachiana	–	–	–	–	–	–	–	–	×	×	×	×	–	–	×	×	×	–	–	–	–	–	–	–	–	
Psychotria pendula	×	–	–	–	–	–	–	–	–	×	–	–	×	–		–	×	×	×	–	×	–		–	–	
Palicourea Pavetta	×	×	–	–	×	–	×	–	–	×	–	×	–	–	–	–	×	–	–	–	–	–	–	–	–	
Borreria podocephala	×	–	–	–	–	–	–	–	–	–	–	×	–	–	–	×	×	–	–	–	–	–	–	–	–	6, 8.
Mitracarpus polycladus	–	–	–	×	–	–	–	–	–	×	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
Eupatorium canescens		–	–		–		×	–	–	–		–	–	–	–	×	×	–	–	–	–	–	–	–	–	
Eupatorium macranthum	–	–	–	–	–	–	–	–	–	×	–	×	×	–	–	–	–	–	–	–	–	–	–	–	–	
Erigeron spathulatus	–	–		–	–	×	–	×		–	–	–	–	–	–	–	×	–		–	–	–	–	–		
Clibadium erosum	–	–	–	×	–	–	–	–	–	×	–	–	–	–	–	–	–	×	×	–	×	–	–	–	–	
Pectis humifusa	–	–	–	×	×	×	×	×	×	×	×	×	×	–	–	×	×	×	×	×	×	×	–	–	–	6, 7, 13.

1 = Virgin Islands.
2 = Vieques.
3 = Crabben Island.
4 = Becquia.
5 = Tortola.
6 = Desirade.
7 = Marie Galante.
8 = Isla de Pinos.
9 = Les Saintes.
10 = Curaçao.
11 = Culebra Island.
12 = Margareta.
13 = Mustique Island.
14 = Cannouan.
15 = Bonaire.

The list given in this chapter needs no further explanation.
As may be seen from the great amount of plants occurring in such a small number of different Islands it will be clear that our knowledge of the Flora of the West Indian Islands is far from being complete.
That is the reason why I will not try to draw any conclusion about the distribution of the different species except a single one and this with all kinds of reserve.
I draw the attention to the data that may be gathered from the following lists.

On the Islands only to the **north** of the Dutch West Indian Islands together with these Islands are collected:

	St. Martin.	Saba.	St. Eustatius.
Diplazium semihastatum	—	—	×
Mariscus capillaris	×	×	—
Tillandsia excelsa	—	×	—
Yucca aloifolia	×	—	—
Smilax coriacea	—	—	×
Smilax ilicifolia	×	—	—
Alternanthera crucis	×	—	—
Portulaca poliosperma	×	—	—
Erythroxylum havanense	×	×	×
Stigmatophyllon sericeum	×	—	—
Ditaxis faxiculata	×	—	—
Adelia ricinella	×	—	—
Acalypha Poiretii	×	—	—
Cissus obovata	×	—	—
Forestiera Eggersiana	×	—	—
Ipomoea arenaria	×	—	—
Rochefortia acanthophora	×	—	×
Lycium americanum	×	—	—
Mitracarpus polycladus	—	×	—

On the Islands only to the **south** of the Dutch West Indian Islands together with these Islands are collected:

	St. Martin.	Saba.	St. Eustatius.
Philodendron dispar	—	×	×
Vriesea guadalupensis	—	×	×
Piper reticulatum	—	×	×
Ficus Krugiana	—	×	×
Ficus omphallophora	—	×	×
Boehmeria ramiflora	—	×	×
Caesalpinia ciliata	×	×	×
Galactia rubra	×	×	×
Freziera undulata	—	×	—
Marila racemosa.	—	×	—
Cordia salvifolia	—	×	×
Cordia tremula	—	×	—
Tournefortia caribaea	—	×	—
Beloperone eustachiana	×	×	×
Eupatorium macranthum	—	×	×

As may be seen from these two lists the greater number of the plants found on the northern Islands only are but to be met with on St. Martin, the greater number of the plants found on the southern Islands only are but to be met with on Saba and St. Eustatius.

In conclusion, I believe the different indigenous plants of the Antilles make it sufficiently clear that the vegetation of St. Martin has been influenced by some other circumstances than the vegetation of Saba and St. Martin.

Species only known from the Dutch West Indians Islands are:

Galactia nummularia	St. Martin.
Calyptranthes Boldinghii	St. Martin.
Ipomoea sphenophylla	St. Eustatius.

THIRD PART

Section C. The vegetation of St. Eustatius, Saba and St. Martin

C. The vegetation of St. Eustatius, Saba and St. Martin

CHAPTER I

NOTES ON THE ASPECT OF THE VEGETATION OF THE THREE DUTCH WEST INDIAN ISLANDS.

Introduction.

The vegetation of St. Eustatius, Saba and St. Martin is that of a tropical zone, without any pronounced dry season. As may be seen from the meteorological data the quantity of rain is almost sufficient to make possible the existence of a tropical rainforest vegetation.

The N. E. tradewinds however are of great influence upon the vegetation; where these winds are not broken by mountains we may meet with the typical vegetation of trees blown in a certain direction as well as with the Cactaceae and thornplants, characteristics of a dry climate.

From the edaphic factors that exert influence upon the character of the different Plantformations I will in this chapter only draw the attention to the amount of humus that covers the rocks. It is one of the principal factors, as there are a great number of localities where but a small quantity of humus is to be found. Only there were no strong wind is blowing, where the atmosphere is humid and where the quantity of humus has surpassed a minimum the tropical vegetation shows itself in its wellknown typical features.

But the above named factors have not exclusively determined the plantcovering of the Islands; one of the greatest factors has been the influence of man, who has been destroying the woods and introducing many plants in culivating the soil. So there are a great number of plants introduced that have superseded the primitive vegetation.

When taking the vegetation in general and without entering into details we may consider it to be identical on the three Islands. From the short notes however I give in this chapter on the aspect of the different Islands it will be obvious that on each of the three Islands a particular Formation gives a predominant character to each of them.

St. Eustatius.

The monotony of the level part of St. Eustatius is relieved by some plantations surrounded by trees and by roads also bordered by trees and shrubs.
The formation that predominates in the „Cultuurvlakte" is a dry shrubby vegetation of a greyish aspect that I will call the Croton vegetation, following the nomenclature of *Eggers* in his Flora of St. Croix and the Virgin Islands.
The greater part of the hills near Signalhill and Concordia are also covered with the same vegetation.
Only the higher parts of these hills as well as the Quill are covered with a greenish wood that I will call the Eriodendron vegetation also in analogy with *Eggers* l. c.
These two parts of the vegetation are not wholly separated and both of them are intermixed with those plants which form the vegetation of the cultivated region.
The impracticable parts of the rocky cliffs covered only with few plants form a typical vegetation with thicker or more coriaceous leaves in close relation with the vegetation of the seashore; the latter is not very well developed in St. Eustatius as there is but a small beach and the Cultuurvlakte is about 40 m. above the sealevel.
Without entering into details we can practically divide the vegetation of St. Eustatius in:

1. Vegetation of the higher parts of the mountains.
2. Vegetation of the Cultuurvlakte and the lower parts of the mountains.
3. Vegetation of the seashore and the rocky localities of the Island.
4. Vegetation of the cultivated region.

Whereas a survey of the vegetation of St. Eustatius based on these principles is given in the following lists it may be mentioned here that an almost synomical list could be given, viz:

1. Eriodendron vegetation.
2. Croton vegetation.
3. Littoral vegetation.
4. Eriodendron- and Croton vegetation intermixed with and partly replaced by plants of the cultivated region.

We will see in Chapter II of this Section that these two series of names do not quite agree and this is the reason why I use the first mentioned names when in the following lists I give a survey of the distribution of the plants on the different parts of St. Eustatius. In these lists as well as in the other ones I give in this Chapter the West Indian plants are printed in italics whereas the plants that are cultivated on the Dutch West Indian Islands are printed in small type.

1. Vegetation of the Higher Parts of the Mountains of St. Eustatius.

Acacia macracantha, Acacia tortuosa, Aegiphila martinicensis, Allophylus occidentalis, Amomis caryophyllata, **Anacardium occidentale**, Andira jamaicensis, Anona muricata, **Anona reticulata**, *Anthurium cordatum*, *Aspidium Plumieri*, Asplenium cristatum, Asplenium obtusifolium, Asplenium serratum, *Bernardia corensis*, *Besleria lutea*, Bignonia ungiuscati, Blechnum occidentale, *Bumelia obovata*, Bursera simaruba, Byrsonima spicata, Calotropis procera, Capparis Breynia, Capparis cynophallophora, Capparis frondosa, Capparis jamaicensis, Casearia parvifolia, Cassia glandulosa, Catopsis nutans, Cecropia peltata, Ceiba pentandra, Celtis Iguanacea, Centrosema virginianum, Chiococca racemosa, Chrysobalanus icaco, Cissus sicyoides, Citharelyxum quadrangulare, *Clusia alba*, *Coccoloba diversifolia*, *Coccoloba nivea*, Coccoloba uvifera, Coffea arabica, *Corchorus hirsutus*, *Cordia salvifolia*, Crotalaria retusa, *Croton astroites*, Cyathea serra, *Daphnopsis caribaea*, Desmanthus depressus, Desmodium supinum, Dipholis salicifolia, Dodonaea viscosa, Elaphoglossum conforme, Elaphoglossum petiolatum, Epidendrum anceps, Epidendrum difforme, *Erithalis fruticosa*, *Erythroxylum havanense*, *Eugenia axillaris*, *Eugenia cordata*, Eugenia ligustrina, Eupatorium conyzoides, *Eupatorium macranthum*, *Fagara martinicensis*, *Fagara trifoliata*, *Ficus Krugiana*, *Ficus populnea*, *Ficus Urbaniana*, *Galactia dubia*, *Gesneria ventricosa*, Guettarda parvifolia, Guettarda scraba, Gyminda latifolia, *Gymnanthes lucida*, Heliconia Bihai, Heteropteris lanceolata, Heteropteryx purpurea, Hillia longifolia, *Hyperbaena domingensis*, *Inga laurina*, Impomoea dissecta, *Jacquemontia pentantha*, *Krugiodendron ferreum*, Lantana camara, Lantana involu-

crata, Leiphaimos aphylla, Linociera compacta, Lonchocarpus violaceus, Lycopodium taxifolium, Mammea americana, *Maytenus ellipticus*, Melothria fluminensis, Miconia impetiolaris, Miconia laevigata, Mimosa pudica, Morisonia americana, Myrcia paniculata, *Myrcia splendens*, Nectandra coriacea, *Nectandra Krugii*, Neurogramme calomelanos, Oplismenus setarius, *Palicourea Pavetta*, Panicum divaricatum, Panicum insulare, Paspalum hemisphaericum. Passiflora laurifolia, Passiflora suberosa, *Pectis humifusa*, Peperomia acuminata, Peperomia glabella, *Peperomia Langsdorffii*, Peperomia obtusifolia, Peperomia scandens, Persea americana, Pharus glaber, *Philodendron dispar*, Philodendron oxycardium, *Phoebe elongata*, *Physurus plantagineus*, *Picrasma Antillana*, *Pilea semidentata*, Piper dilatatum, Piper medium, *Piper reticulatum*, Piriqueta villosa, Pisonia aculeata, Pisonia fragans, *Pisonia subcordata*, *Pitcairnia augustifolia*, Polypodium brasiliense, Polypodium lycopodioides, Polypodium phyllitides, Polypodium plumula, Polystachya luteola, Prescotria stachyoides, Prunus myrtifolius, Psychotria horizontalis, Psychotria rufescens, Psychotria uliginosa, *Randia aculeata*, Rauwolfia Lamarckii, Rhynchosia reticulata, *Samyda serrulata*, Schaefferia frutescens, Schoepfia Schreberi, Scleria lithosperma, *Smilax coriacea*, Smilax guianensis, Solanum lanceaefolium, *Solanum racemosum*, Solanum racemosum igneum, Spermacoce tenuior, Stenochlaena sorbifolia, Stenolobium stans, Stenorrhynchus orchioides, *Stigmatophyllon periplocifolium*, Swietenia mahagoni, *Symplocos martinicensis*, Tabernaemontana citrifolia, Tecoma leucoxylon, Ternstroemia peducularis, Theobroma Cacao, *Tournefortia foetidissima*, Tragia volubilis, *Trema Lamarckianum*, Trema micranthum, Triumfetta rhomboidea, Urera Caracasana, Vernonia punctata, Vittaria lineata, *Vriesea guadalupensis*, Waltheria americana, *Wedelia buphthalmoides*, *Xylosma buxifolium*.

2. Vegetation of the Cultuurvlakte and the Lower Parts of the Mountains of St. Eustatius.

Acacia macracantha, Acacia tortuosa, *Amarantus polygonoides*, Andira jamaicensis, *Andropogon contortus*, Aristida americana, Ayena pusilla, *Beloperone eustachyana*, *Bernardia corensis*, *Borreria podocephala*, Brassavola cucullata, Canavalia obtusifolia, Capparis cynophallophora, Capparis frondosa, Capparis jamaicensis, Cassia bicapsularis, Cassia glandulosa, Catopsis nutans, Celtis Iguanacea, Cenchrus tribuloides, Centrosema virginianum, Citharexylum quadrangulare, Coccoloba uvifera, Commelina virginica, *Comocladia ilicifolia*, *Corchorus hirsutus*, *Cordia salvifolia*, Cracca caribaea,

Croton astroites, *Croton flavens*, Cuscuta americana, Dactyloctenium aegyptium, Dalechampia scandens, Desmanthus depressus, Desmanthus virgatus, Desmodium supinum, Diodia rigida, Dodonaea viscosa, Duranta repens, *Epidendrum papilionaceum*, Eragrostis ciliaris, *Erithalis fruticosa*, *Ernodea litoralis*, *Eugenia cordata Sintensii*, Eugenia ligustrina, *Eugenia procera*, *Eugenia uniflora*, *Euphorbia articulata*, Evolvulus sericeus, Fourcroya gigantea, *Galactia dubia*, Gouania domingensis, *Gymnanthes lucida*, Heteropteryx purpurea, *Hymenocallis caribaea*, *Ipomoea sphenophylla*, *Jacquemontia pentantha*, *Jacquinia armillaris*, Jatropha curcas, Jatropha gossypifolia, *Justicia sessilis*, Krameria Ixina, Lantana camara, Lantana involucrata, Malpighia punicifolia, Malvastrum spicatum, *Maytenus elliptica*, Melicocca bijuga, Melochia tomentosa, *Melocactus communis*, Morisonia americana, Opuntia Ficus indica, Opuntia triacantha, Opuntia Tuna, Panicum insulare, Pappophorum alopecuroideum, *Pectis humifusa*, Phoradendron trinervium, Phyllanthus distichus, Pilea microphylla, Pisonia fragans, *Pisonia subcordata*, *Pitcairnia augustifolia*, Pithecolobium ungis cati, Polypodium lycopodioides, Portulaca oleracea, Randia aculeata, Rauwolfia Lamarckii, *Rhacoma crossopetalum*, Rhynchosia reticulata, *Rochefortia acanthophora*, *Samyda serrulata*, Schaefferia frutescens, Setaria setosa, Sida ciliaris, Sida supina, *Solanum racemosum*, Solanum racemosum igneum, Sporobolus virginicus, Stenolobium stans, *Stigmatophyllon periplocifolium*, *Strumpfia maritima*, Stylosanthes hamata, Talinum triangulare, Tamarindus indica, Tecoma leucoxylon, Tephrosia cinerea, Tournefortia volubilus, Tragus racemosus, Turnera ulmifolia, *Urechites suberecta*, Vernonia punctata, Waltheria americana.

3. Vegetation of the Seashore and Rocky Parts of St. Eustatius.

Amarantus polygonoides, *Andropogon contortus*, Argemone mexicana, Aristida americana, *Borreria podocephala*, Caesalpinia crista, Calonyction tuba, Canavalia obtusifolia, Cassia bicapsularis, *Comocladia ilicifolia*, Conocarpus erectus, *Ernodea litoralis*, *Eupatorium canescens*, *Euphorbia articulata*, Euphorbia buxifolia, Evolvulus sericeus, Heliotropium curassavicum, Hibiscus tiliaceus, Hippomane mancinella, Ipomoea pescaprae, *Jacquinia armillaris*, Lithophila muscodes, Malpighia punicifolia, *Melocactus communis*, Opuntia Ficus indica, *Opuntia spinosissima*, Opuntia triacantha, Opuntia Tuna, *Panicum diffusum*, Pappophorum alopecuroideum, *Rhacoma crossopetalum*, Sesuvium portulacastrum, Setaria setosa, *Strumpfia*

maritima, Tephrosia cinerea, Thespesia populnea, *Tournefortia gnaphalodes*.

4. Vegetation of the Cultivated Region of St. Eustatius.

Abrus precatorius, Abutilon indicum, Acacia macracantha, Acacia riparia, Acacia tortuosa, *Acalypha chamaedrifolia*, Achras sapota, Achyranthes obtusifolia, Ageratum conyzoides, Alternanthera repens, Amarantus spinosus, Amarantus tristis, *Ambrosia hispida*, Anona montana, Anona muricata, Anthephora hermaphroditica, Antigonon leptopus, Boerhaavea hirsuta, Boerhaavea paniculata, Bryophyllum pinnatum, Calotropis procera, Capparis Breynia, Capparis cynophallophora, Capraria biflora, Cardiospermum halicacabum, Cassia occidentalis, Cenchrus tribuloides, Centrosema virginiana, Cheilanthes microphylla, Chenopodium ambrosioides, Chenopodium murale, Cissampelos Pareira, Clerodendron aculeatum, Coccoloba uvifera, Coleus amboinicus, Commelina virginica, Corchorus acutangulus, *Corchorus hirsutus*, Cracca caribaea, Crotalaria verrucosa, *Croton astroites*, *Croton flavens*, Croton lobatus, Cynodon dactylon, Cyperus rotundus, Datura Metel, Datura Stramonium, Desmanthus depressus, Desmanthus virgatus, Desmodium supinum, Eleusine indica, Eragrostis ciliaris, Eupatorium conyzoides, Euphorbia heterophylla, Euphorbia hypericifolia, Euphorbia pilulifera, Festuca Myurus, Fleurya aestuans, Gynandropsis pentaphylla, Haematoxylon campechianum, Heliotropium indicum, Heliotropium parviflorum, Hura crepitans, Hyptis pectinata, *Ibatia maritima*, Indigofera suffruticosa, *Jacquemontia pentantha*, Jatropha gossypifolia, Kallstroemia maxima, Lantana involucrata, Leonotis nepetaefolia, Leonurus sibiricus, Leucaena glauca, Lochnera rosea, Malvastrum spicatum, Melicocca bijuga, *Melocactus communis*, Melochia pyramidata, Melochia tomentosa, Microtea debilis, Mimosa pudica, Mirabilis Jalapa, Mollugo verticillata, Momordica Charantia, Hydrolea jamaicensis, Neurogramme calomelanos, Ocimum micranthum, Opuntia Ficus indica, Opuntia triacantha, Opuntia Tuna, Panicum insulare, Panicum maximum, Panicum sanguinale, Parthenium Hysterophorus, Paspalum fimbriatum, Paspalum hemisphaericum, Passiflora laurifolia, *Pedilanthus tithymaloides*, Peperomia petiolaris, Phaseolus lathyroides, Phyllanthus niruri, Pilea microphylla, Piriqueta villosa, Plumbago scandens, Polanisia viscosa, Polypodium aureum, Porophyllum ellipticum, Portulaca halimoides, Portulaca oleracea, Portulaca quadrifida, Priva echinata, Rauwolfia Lamarckii, Rhynchosia reticulata, Rivina humilis, Salvia occidentalis, Salvia serotina, Setaria glauca, Setaria setosa, Sida carpinifolia, Sida cordifolia,

Sida supina, Solanum nigrum nodiflorum. *Solanum racemosum*, Solanum racemosum igneum, Sonchus oleraceus, Spermacoce tenuior. Stachytarpheta jamaicensis. *Stigmatophyllon periplocifolium*. Stylosanthes hamata. Talinum triangulare. Tamarindus indica. Tecoma leucoxylon. Tephrosia cathartica. Thunbergia fragans. Tillandsia recurvata, Vernonia punctata, Waltheria americana, *Wedelia buphthalmoides*, Zornia diphylla.

Saba.

The Island of Saba makes a very different impression as St. Eustatius does, especially by the total absence of a level country like the Cultuurvlakte on the latter Island.

Owing to the conical form of Saba there are only steep slopes of hills and these hills are covered by the same vegetation as those in St. Eustatius, viz.: the Eriodendron vegetation. Moreover there is a good quantity of almost naked rock where a very poor flora is to be found.

According to the fact that almost in all the localities that are apt for cultivation the soil is occupied by the inhabitants, there is a well developed vegetation of the cultivated region intermixed with the Eriodendronvegetation.

The Croton vegetation is only to be seen in a very few localities and nowhere on Saba it is so predominant as in St. Eustatius.

That part of the Mountain higher than 500 m. above the sea-level, though also greatly influenced by ruderal plants has a very well developed tropical rainforest which, without losing the typical character of the St. Eustatius forests is characterised by its great number of Ferntrees.

The vegetation of the seashore is very poor and has no influence on the general aspect of the Sabavegetation.

Whereas it is not so easy to make a sharp difference between the four Plantformations still I think it better also to trace out here the four following typical groups:

1. Vegetation of the Mountain top and the greater part of all the slopes of the Island.
2. Vegetation of some arid hills.
3. Vegetation of the seashore and rocky localities.
4. Vegetation of the cultivated region.

Referring to page 267 we might take take the same series of names I gave there for the first three divisons whereas the

fourth division could be replaced by: Eriodendronvegetation intermixed with and partly replaced by ruderalplants.

1. Vegetation of the Mountaintop and the Greater Part of the Slopes of Saba.

Ageratum conyzoides, Alsophila phalerata, Amomis caryophyllata, Andropogon glomeratus, Anona muricata, *Anthurium cordatum*, Aspidium Plumierii, Aspidium trifoliatum, Asplenium cristatum, Baccharis cotinifolia, *Begonia domingensis*, *Besleria lutea*, *Bewreria succuleata*, Blechnum occidentale, Blechum Brownei, *Boehmeria ramiflora*, Bromelia pinguin, Bryophyllum pinnatum, Bursera simaruba, Callisia repens, Capparis Breynia, Capparis cynophallophora, Cascaria parvifolia, Cecropia peltata, Celtis Iguanacea, *Cestrum laurifolium*, Chaptalia nutans, Chiococca racemosa, Chloris radiata, Chrysobalanus icaco, *Chrysophyllum argenteum*, Cissus sicyoides, *Cladium restioides*, *Clusia alba*, *Coccoloba dwersifolia*, *Coccoloba nivea*, Commelina virginica, *Comocladia ilicifolia*, *Cordia salvifolia*, Crotalaria retusa, Cyathea arborea, Cyathea serra, Cyperus distans, Cyperus rotundus, *Daphnopsis caribaea*, Desmodium axillare, Desmodium supinum, Dichromena radicans, Dioscorea alata, Dioscorea trifida, Diplazium striatum, Dryopteris opposita, Dryopteris reticulata, Duranta repens, Elaphoglossum conforme, Elaphoglossum latifolium, Epidendrum anceps, Epidendrum ciliare, Epidendrum globosum, Eragrostis ciliaris, Eragrostis pilosa, Erechthites valerianaefolia, Eryngium foetidum, *Erythroxylon havanense*, *Eugenia axillaris*, *Eugenia procera*, Eupatorium iresinoides, *Eupatorium macrantum*, Eupatorium paniculatum, *Fagara martinicensis*, *Ficus omphallophora*, *Ficus Urbaniana*, *Freziera undulata*, *Gesneria ventricosa*, Gleichenia bifida, Gonzalagunia hirsuta, Guettarda parvifolia, Heliconia Bihai, Heliotropium indicum, Heliotropium parviflorum, Hemidiodia ocimifolia, Hemitelia horrida, Hillia longifolia, Hirtella triandra, *Hyperbaena domingensis*, Hypoxis decumbens, Ichnanthes pallens, Indigofera suffruticosa, Ipomoea fastigiata, *Isachne arundinacea*, Isachne rigens, Lagascea mollis, Lagenaria vulgaris, Leiphaimos aphylla, Lepidium virginicum, Leptochloa virgata, Lochnera rosea, Lycopodum taxifolium, Marcgravia umbellata, *Mariscus capillaris*, Mariscus flavus, Melia Azedarach, Melochia tomentosa, Miconia laevigata, *Microstylis spicata*, *Myrcia coriacea*, *Nectandra Krugii*, Nephrolepis exaltata, Neurogramme calomelanos, Neurolaena lobata, Oplismenus setarius, Opuntia triacantha, Ornithidium coccineum, Panicum brevifolium, *Palicourea Pavetta*, Paspalum conjuga-

tum, Passiflora foetida, Passiflora rubra, Peperomia acuminata, *Peperomia emarginella*, Peperomia glabella, Peperomia hernandifolia, Peperomia obtusifolia, Peperomia urocarpa, *Philodendron giganteum*, Philodendron oxycardium, *Physurus plantagineus*, Phytolacca icosandra, *Piersma antillana*, Pilea microphylla, *Pilea obtusata*, Pilea parietaria, *Piper reticulatum*, Pisonia aculeata, *Pisonia subcordata*, Polybotrya cervina, Polypodium aureum, Polypodium crassifolium, Polypodium lycopodioides, Polypodium phyllitidis, Polypodium piloselloides, Polypodium squamatum, Polypodium serrulatum, Polypodium trichomanoides, Psilotum nudum, Psychotria horizontalis, Psychotria rufescens, Pteris biaurita, Rapanea ferruginea, Rhynchosia reticulata, Rhynchospora polyphylla, Sauvagesia erecta, *Salvia serotina*, Schoepfia Schreberi, Scleria pterota, **Sechium edule**, Selaginella flabellata, Selaginella substipitata, Setaria glauca, Setaria setosa, Solanum lanceaefolium, Solanum nigrum nodiflorum, *Solanum racemosum*, Sonchus oleraceus, Stachytarpheta jamaicensis, Synedrella nodiflora, *Symplocos martinicensis*, Tabernaemontana citrifolia, Talinum triangulare, **Tecoma leucoxylon**, Tibouchina strigosa, *Tillandsia excelsa*, Torulinium confertum, *Tournefortia foetidissima*, Tragia volubilis, Trichomanes alatum, Triumfetta semitriloba, Urena lobata, Utricularia alpina, Vernonia punctata, *Vriesea guadalupensis*, *Wedelia buphthalmoides*.

2. Vegetation of Dry Hills of Saba.

Acacia Farnesiana, Anona muricata, Capparis cynophallophora, Capparis jamaicensis, Cardiospermum halicacabum, Cissampelos Pareira, *Coccoloba diversifolia*, *Colubrina ferruginosa*, *Cordia salvifolia*, *Croton flavens*, *Ernodea litoralis*, *Gundlachia domingensis*, Indigofera suffruticosa, *Melocactus communis*, Opuntia Ficus indica, Opuntia triacantha, Opuntia Tuna, *Pectis humifusa*, *Pisonia subcordata*, Polypodium piloselloides, Psychotria horizontalis, Sesuvium portulacastrum, Talinum triangulare, **Tecoma leucoxylon**, Tragus racemosus.

3. Vegetation of the Seashore and Rocky Parts of Saba.

Aristida americana, **Bursera simaruba**, Calotropis procera, Canavalia obtusifolia, Capraria biflora, Cheilanthes microphylla, Chenopodium ambrosioides, Chloris paraguaiensis, Coccoloba uvifera, Dactyloctenium aegyptium, Eupatorium conyzoides, *Euphorbia articulata*, Hippomane mancinella, Lithophila muscoides, **Lochmera rosea**, *Mariscus brizaeus*, *Melocactus communis*, Neurogramme calomelanos, Opuntia Ficus indica, Opuntia triacantha, Opuntia Tuna.

Panicum insulare, Pappophorum alopecuroideum, Pectis febrifuga, Pisonia aculeata, *Pisonia subcordata*, Portulaca oleracea, Sesuvium portulacastrum, Sida rhombifolia, *Solanum racemosum*, Stylosanthes hamata, Tecoma leucoxylon, Turnera ulmifolia.

4. Vegetation of the Cultivated Region of Saba.

Abrus precatorius, Acacia Farnesiana, *Acalypha chamaedrifolia*, Acnistus arborescens, Achyranthes obtusifolia, Adiantum tenerum, Ageratum conyzoides, Alternanthera repens, Alysicarpus nummularius, Amarantus paniculatus, Amarantus spinosus, Amarantus tristus, *Ambrosia hispida*, Anacardium occidentale, Anona montana, Anona muricata, Anona reticulata, Anona squamosa, Anthephora hermaphroditica, Antigonon leptopus, Argemone mexicana, Aristida americana, Asclepias nivea, Asplenium pumilum, *Beloperone eustachiana*, *Besleria lutea*, *Beureria succulenta*, Bidens bippinatus, Bidens leucantha, Bignonia ungius-cati, Bixa Orellana, Blechnum occidentale, Blechum Brownei, Boerhaavea hirsuta, Boerhaavea paniculata, *Borreria podocephala*, Bouchea Ehrenbergii, Boussingaultia baselloides, Brassica integrifolia, Bromelia pinguin, Bryophyllum pinnatum, *Bumelia obovata*, Bursera simaruba, Byrsonima spicata, Caesalpinia crista, Cajanus indicus, Callisia repens, Capparis Breynia, Capparis cynophallophora, Capparis frondosa, Capparis jamaicensis, Capraria biflora, Cardiospermum halicacabum, Casearia parvifolia, Cassia bicapsularis, Cassia glandulosa, Cassia occidentalis, Catopsis nutans, Celtis Iguanacea, Cenchrus tribuloides, Centrosema virginianum, *Cestrum laurifolium*, Chaptalia nutans, Cheilanthes microphylla, Chenopodium ambrosioides, Chiococca racemosa, Chloris paraguaiensis, Chrysobalanus icaco, Cissus sicyoides, Citharexylum quadrangulare, Clerodendron aculeatum, *Clusia alba*, *Coccoloba diversifolia*, *Coccoloba nivea*, *Coccoloba obtusifolia*, Coccoloba uvifera, Coleus amboinicus, Commelina virginica, *Comocladia ilicifolia*, *Cordia salvifolia*, *Cordia sulcata*, *Cordia tremula*, Crescentia Cujete, Crinum americanum, Crotalaria incana, Crotalaria retusa, *Croton flavens*, Croton lobatus, Cucumis Anguria, Cuscuta americana, Cyperus rotundus, Dactyloctenium aegyptium, *Daphnopsis caribaea*, Desmanthus virgatus, Desmodium axillare, Desmodium spirale, Desmodium supinum, Desmodium uncinatum, Dichromena radicans, Drymaria cordata, Dryopteris opposita, Duranta repens, Eleusine indica, Epidendrum anceps, Epidendrum ciliare, *Epidendrum papilionaceum*, Eragrostis ciliaris, Eragrostis pilosa, Erechthites hieracifolia, Erechthites valerianaefolia, Erigeron canadensis, *Erigeron spathulatus*, Eryngium

foetidum, *Erythroxylum havanense*, *Eugenia axillaris*, Eugenia Jambos, *Eugenia procera*, *Eugenia uniflora*, Eupatorium conyzoides, Eupatorium iresinoides, Eupatorium macrophyllum, Euphorbia hypericifolia, Euphorbia pilulifera, Euphorbia pulcherrima, *Fagara martinicensis*, Faramea odoratissima, *Ficus Krugiana*, *Ficus omphallophora*, *Ficus populnea*, *Ficus Urbaniana*, Fleurya aestuans, Galactia rubra, Gonzalagunia hirsuta, Gouania domingensis, Guettarda parvifolia, Guettarda scabra, Gynandropsis pentaphylla, Heliotropium parviflorum, Hemidiodia ocimifolia, Hymenaea Courbaril, *Hymenocallis caribaea*, Hyptis pectinata, *Inga laurina*, Ipomoea fastigiata, Ipomoea Nil, Indigofera suffruticosa, Iresine paniculata, *Jacquemontia pentantha*, Jatropha curcas, Jatropha gossypifolia, *Justicia sessilis*, Kallstroemia maxima, Lagascea mollis, Lantana Camara, Lantana involucrata, Leonotis nepetaefolia, Leonurus sibiricus, Lepidium virginicum, Leptochloa virgata, Linociera compacta, Lochnera rosea, Malpighia punicifolia, Malvastrum spicatum, Mammea americana, *Mariscus brizaeus*, *Mariscus capillaris*, Melothria fluminensis, Miconia laevigata, *Mitracarpus polycladus*, Momordica charantia, Morisonia americana, Myrcia coriacea, *Myrcia splendens*, Nectandra coriacea, *Nectandra Krugii*, Neurogramme calomelanos, Ocimum micranthum, Oncidium spec., Oplismenus setarius, Oxalis corniculata, *Palicourea Pavetta*, Panicum brevifolium, Panicum divaricatum, Panicum insulare, Panicum maximum, Panicum molle, Panicum sanguinale, Pappophorum alopecuroideum, Parthenium Hysterophorus, Paspalum conjugatum, Paspalum fimbriatum, Paspalum hemisphaericum, Passiflora laurifolia, Passiflora rubra, Passiflora suberosa, Pavonia spinifex, *Pectis humifusa*, *Pedilanthus tithymaloides*, Peperomia glabella, Peperomia petiolaris, Petiveria alliacea, Pharus glaber, *Philodendron dispar*, Philodendron oxycardium, Phoradendron trinervium, Phyllanthus niruri, Physalis pubescens, *Picrasma antillana*, Pilea microphylla, *Pilea semidentata*, Piper dilatatum, *Piper reticulatum*, Pisonia aculeata, *Pisonia subcordata*, *Pitcairnia angustifolia*, Pithecolobium ungius-cati, Plantago major, Pluchea purpurascens, Plumbago scandens, *Plumiera alba*, Polanisia viscosa, Polypodium aureum, Polypodium brasiliense, Polypodium lycopodioides, Polypodium phyllitidis, Polypodium piloselloides, Polypodium squamatum, Porophyllum ellipticum, Portulaca oleracea, Portulaca pilosa, Priva echinata, Psidium Guajava, Psychotria rufescens, Psychotria uliginosa, Pteris biaurita, *Randia aculeata*, Rauwolfia Lamarckii, *Rhacoma crossopetalum*, Rhynchosia reticulata, Rivina humilis, Ruellia tuberosa, Salvia occidentalis, *Salvia serotina*, Sauvagesia erecta, Schaefferia frutescens, Schoepfia

Schreberi, Scleria pterota, Scoparia dulcis, Sechium edule, Senecio sonchifolius, Setaria glauca, Setaria setosa, Sida carpinifolia, Sida cordifolia, Sida supina, *Sideroxylon foetidissimum*, Smilax guianensis, Solanum aculeatissimum, Solanum lanceaefolium, Solanum nigrum nodiflorum, Solanum racemosum igneum, Solanum torvum, Sonchus oleraceus, Spermacoce tenuior, Spigelia Anthelmia, Sporobolus indicus, Stachytarpheta jamaicensis, Stenolobium stans, Stylosanthes hamata, Synedrella nodiflora, Tabernaemontana citrifolia, Talinum paniculatum, Talinum triangulare, Tamarindus indica, Tecoma leucoxylon, Tephrosia cathartica, Tetrazygia discolor, Thespesia populnea, Thunbergia alata, Tillandsia fasciculata, Tillandsia recurvata, Tillandsia usneoides, Tillandsia utriculata, *Tournefortia foetidissima*, Tragia volubilis, *Trema Lamarckianum*, Triumfetta semitriloba, *Urechites suberecta*, Urena lobata, Vernonia punctata, Villamilla octandra, Waltheria americana, *Wedelia buphthalmoides*, *Wittmackia lingulata*, Zebrina pendula.

St. Martin.

Widely different from the former two Islands the vegetation of St. Martin is chiefly composed of a Crotonvegetation much more developed than on St. Eustatius, whereas the tropical woods that are to be found on St. Eustatius and Saba are not to be met with on St. Martin.

The greater part of the Island being cultivated the ruderal-plants are dispersed in almost the whole Island, along the roads and on the plantations and meadows, except in the typical Croton-vegetation which on the outer parts of St. Martin is gradually changing into a well developed Littoralflora.

This Littoralflora together with the Crotonvegetation commands the whole aspect of St. Martin.

Only where the hills are a little higher the Eriodendronvegetation like that one of the northern part of St. Eustatius is to be found.

The vegetation in the neighbourhood of the Saltponds with species that are not to be seen on the other Islands has also a typical aspect.

According to the results I got in studying the vegetation of St. Martin more minutely I dare say that we can also trace out here the following formations.

1. Vegetation of the tops of the hills.
2. Vegetation of the level parts of the Island and of the lower slopes of the hills.
3. Vegetation of the seashore and the rocky parts.
4. Vegetation of the cultivated region.

Referring to page 267 we could substitute for the first three divisions the same names I gave there, whereas the fourth division is almost synonym with: Crotonvegetation and in some cases also Eriodendronvegetation intermixed with, and partly replaced by ruderal plants.

1. Vegetation of the Tops of the Hills of St. Martin.

Abrus precatorius, Acacia macracantha, Acacia riparia, Actinostemon caribaeum, *Adelia ricinella*, Ageratum conyzoides, Amarantus spinosus, Amomis Caryophyllata, Anona muricata, Anona squamosa, *Anthurium cordatum*, *Argithamnia candicans*, Aristolochia trilobata, Asclepias nivea, Asplenium cristatum, Asplenium pumilum, *Beloperone custachiana*, *Bernardia corensis*, Bignonia unguis—cati, Blechnum occidentale, Brassavola cucullata, Bryophyllum pinnatum, Bunchosia nitida, Bursera simaruba, Callisia repens, *Canella alba*, Capparis Breynia, Capparis coccolobifolia, Capparis cynophallophora, Capparis jamaicensis, Capraria biflora, Capsium frutescens, Cardiospermum halicacabum, Casearia parvifolia, Casearia sylvestris, Cassia bicapsularis, Catopsis nutans, Cenchrus tribuloides, Chaptalia nutans, Chiococca racemosa, Chloris ciliata, Cissampelos Pareira, *Cissus obovata*, Cissus sicyoides, Clusia rosea, *Coccoloba nivea*. Commelina virginica, *Comocladia ilicifolia*, *Corchorus hirsutus*, Corchorus siliquosus, Crotalaria incana, *Croton betulinus*, Cyperus elegans, Dalechampia scandens, *Daphnopsis caribaea*, Desmodium supinum, Desmodium triflorum, Dorstenia contrajerva, Epidendrum anceps, Epidendrum ciliare, *Erigeron spathulatus*, Eryngium foetidum, *Erythroxylum havanense*, *Eugenia fragrans*, Eugenia Jambos, *Eugenia monticola*, *Eugenia procera*, Eupatorium macrophyllum, *Euphorbia petiolaris*, *Exostemma caribaeum*, *Ficus populnea*, *Ficus Urbaniana*, Fleurya aestuans, Guettarda parvifolia, Guettarda scabra, Hemionitis palmata, Heteropteris lanceolata, *Hymenocallis caribaea*, *Inga laurina*, *Krugiodendron ferreum*, Kyllinga brevifolia, Lantana Camara, Lantana involucrata, Leonurus sibirica, Lepidium virginicum, Leucaena glauca, Loniciera compacta, Mammea americana, Mangifera indica, *Maytenus ellipticus*, Miconia laevigata, Myrcia paniculata, *Myrcia splendens*, Neurogramme calomelamos, Oncidium spec., Oplis-

menus setarius, Oxalis corniculatus, *Panicum diffusum*, Panicum divaricatum, Panicum insulare, Panicum maximum, Panicum prostratum, Panicum sanguinale, Paspalum conjugatum, Passiflora laurifolia, Passiflora suberosa, *Pedilanthus tithymaloides*, Peperomia acuminata, Peperomia glabella, Peperomia obtusifolia, Pharus glaber, Phoradendron trinervium, Phyllanthus nobilis, Phytolacca icosandra, *Picramnia pentandra*, *Picrasma antillana*, Pilea microphylla, Piper dilatatum, Pisonia aculeata, Pisonia fragrans, *Pisonia subcordata*, Pithecolobium ungius-cati, Pluchea purpurascens, Polypodium aureum, Polypodium brasiliense, Polypodium lycopodioides, Polypodium phyllitidis, Polypodium piloselloides, Polypodium squamatum, Psidium Guajava, Psychotria horizontalis, *Randia aculeata*, Rhynchosia reticulata, Rivina humilis, *Rochefortia acanthophora*, Ruellia tuberosa, *Samyda serrulata*, Schaefferia frutescens, Senecio sonchifolius, Sida carpinifolia, Sida rhombifolia, *Smilax ilicifolia*, Solanum lanceaefolium, *Solanum racemosum*, Sonchus oleraceus, Spermacoce tenuior, Spigelia Anthelmia, Spiranthes elata, Sporobolus virginicus, Stenolobium stans, Synedrella nodiflora, Tabernaemontana citrifolia, Tecoma leucoxylon, Tillandsia fasciculata, Tillandsici recurvata, Tillandsia utriculata, *Tournefortia foetidissima*, *Tournefortia hirsutissima*, Tradescantia geniculata, Tragia volubilis, Triumfetta rhomboidea, Vernonia punctata, *Wedelia buphthalmoides*, *Wittmackia lingulata*.

2. Vegetation of the Level Parts and of the Lower Parts of the Hills of St. Martin.

Abrus precatorius, Abutilon indicum, *Amarantus polygonoides*, Amarantus tristis, *Amyris elemifera*, Anacardium occidentale, Anona muricata, Anona squamosa, *Argithamnia candicans*, *Beloperone eustachiana*, *Beureria succulenta*, Boerhaavea paniculata, Bunchosia nitida, Bursera simaruba, Calotropis procera, *Calyptranthes Boldinghii*, *Canella alba*, Capparis cynophallophora, Capparis frondosa, Capparis jamaicensis, Cardiospermum halicacabum, Cassia bicapsularis, Cassia occidentalis, Cenchrus tribuloides, Centrosema virginianum, Chloris paraguaiensis, Chrysobalanus icaco, Cissus sicyoides, Clusia rosea, Coccoloba uvifera, Commelina virginica, *Comocladia ilicifolia*, Conocarpus erectus, Crotalaria retusa, *Croton astroites*, *Croton betulinus*, *Croton flavens*, Cuscuta americana, Cyperus elegans, Cyperus rotundus, Desmanthus depressus, *Ditaxis fasciculata*, Dodonaea viscosa, Eleusine indica, *Epidendrum papilionaceum*, Eragrostis ciliaris, Eragrostis pilosa, Eragrostis tephrosanthos, Erigeron canadensis,

Erithalis fruticosa, *Eugenia axillaris*, *Eugenia monticola*, Euphorbia buxifolia, *Euphorbia petiolaris*, Euphorbia thymifolia, Evolvulus glaber, Evolvulus sericeus, *Erostemma caribaeum*, Fagara spinifex, *Fagara trifoliata*, *Ficus populnea*, *Ficus Urbaniana*, Gouania domingensis, Guajacum officinale, Guettarda parvifolia, Gyminda latifolia, Heliotropium indicum, Heliotropium microphyllum, *Hymenocallis caribaea*, Ipomoea fastigiata, *Jacquinia armillaris*, *Krugiodendron ferreum*, Lantana Camara, Lantana involucrata, Lemna paucicostata, Leucaena glauca, Lochnera rosea, *Malpighia angustifolia*, Malpighia punicifolia, Mangifera indica, Melochia nodiflora, Melochia tomentosa, Myrcia paniculata, *Panicum diffusum*, Panicum prostratum, Panicum sanguinale, Paspalum hemisphaericum, Passiflora suberosa, *Pectis humifusa*, *Pedilanthus tithymaloides*, *Picramnia pentandra*, Piscidia piscipula, Pisonia aculeata, Pisonia fragrans, *Pisonia subcordata*, Pithecolobium unguis-cati, *Plumiera alba*, Portulaca halimoides, Portulaca oleracea, *Portulaca poliosperma*, Portulaca quadrifida. Psidium Guayava, *Randia aculeata*, Rauwolfia Lamarkii, *Rhacoma crossopetalum*, Rhynchosia reticulata, *Rochefortia acanthophora*, Ruellia tuberosa, *Salvia serotina*, *Samyda serrulata*, Schaefferia frutescens, Sida carpinifolia, Sida ciliaris, Sida cordifolia, Sida supina, Smilax ilicifolia, *Solanum racemosum*, Solanum racemosum igneum, Solanum torvum, Sporobolus virginicus, Stachytarpheta jamaicensis, *Stigmatophyllon periplocifolium*, *Stigmatophyllon sericeum*, Stylosanthes hamata, Tamarindus indica, Tecoma leucoxylon, Ternstroemia peduncularis, Tillandsia recurvata, Tournefortia volubilis, Tragus racemosus, Tribulus cistoides, Vernonia punctata, Waltheria americana.

3. Vegetation of the Seashore and Rocky Parts of St. Martin.

Acacia Farnesiana, *Alternanthera crucis*, Anthephora hermaphroditica, Aristida americana, Avicennia nitida, Batis maritima, Borrichia arborescens, *Bumelia obovata*, Byrsonima crassifolia, *Caesalpinia ciliata*, *Caesalpinia crista*, Canavalia obtusifolia, Cassia obovata, *Cassia polyadena*, Clerodendron aculeatum, *Coccoloba Krugii*, Coccoloba uvifera, Conocarpus erectus, *Ernodea littoralis*, Euphorbia prostrata, Fimbristylis spathacea, *Galactia dubia*, Heleocharis capitata, Heliotropium curassavicum Hippomane mancinella, *Hypelate trifoliata*, *Ipomoea arenaria*, Ipomoea pes caprae, *Jacquinia Berteri*, Juncellus laevigatus. Laguncularia racemosa, Lithophila muscoides, *Lycium Americanum*, *Mariscus brizaeus*. *Melocactus communis*, Metastelma parviflorum, Opuntia Ficus indica, Opuntia triacantha, Opuntia Tuna, Pappophorum alopecuroideum, *Phyllanthus epiphyl-*

lanthus, Plumbago scandens, Rhizophora Mangle, Salicornia herbacea, *Scaevola Plumieri*, Sesbania sericea, Sesuvium portulacastrum, Suriana maritima, Tephrosia cinerea, *Tournefortia gnaphalodes*, Turnera ulmifolia, *Urechites suberecta*, *Yucca aloifolia*.

4. Vegetation of the Cultivated Region of St. Martin.

Abrus precatorius, Abutilon indicum, Acacia macracantha, Acacia riparia, *Acalypha chamaedrifolia*, *Acalypha Poiretii*, Acanthospermum humile, Achyranthes aspera, *Adelia ricinella*, Adiantum tenerum, Alternanthera repens, Alysicarpus nummularifolius, *Amarantus polygonoides*, Amarantus tristis, *Ambrosia hispida*, Anacardium occidentale, Anona muricata, Anona squamosa, Antigonon leptopus, Ayenia pusilla, *Beloperone eustachiana*, *Bouveria succulenta*, Bidens bipinnatus, Blechnum occidentale, Blechum Brownei, Boerhaavea erecta, Boerhaavea hirsuta, Boerhaavea paniculata, Boerhaavea scandens, Brassavola cucullata, Bromelia pinguin, Bryophyllum pinnatum, Bursera simaruba, Caesalpinia coriaria, Caesalpinia pulcherrima, Callisia repens, Calotropis procera, Capparis Breynia, Capparis coccolobifolia, Capparis cynophallophora, Capparis frondosa, Capparis jamaicensis, Capraria biflora, Capsicum frutescens, Cardiospermum halicacabum, Casearia parvifolia, Cassia bicapsularis, Cassia glandulosa, Cassia occidentalis, Catopsis nutans, Ceiba pentandra, Celosia nitida, Celtis Iguanaea, Cenchrus tribuloides, Centrosema virginianum, Chenopodium ambrosioides, Chenopodium murale, Chiococca racemosa, Chloris paraguaiensis, Chrysobalanus icaco, Cissus sicyoides, Citharexylum quadrangulare, *Coccoloba nivea*, Coccoloba uvifera, Coleus amboinicus, Commelina virginica, *Comocladia ilicifolia*, *Corchorus hirsutus*, Cracca caribaea, Crotalaria incana, Crotalaria retusa, Crotalaria verrucosa, *Croton astroites*, *Croton betulinus*, *Croton flavens*, Croton lobatus, Cuscuta americana, Cyperus elegans, Cyperus rotundus, Dactyloctenium aegyptium, Datura fastuosa, Datura Metel, Desmanthus depressus, Desmanthus virgatus, Desmodium spirale, Desmodium supinum, *Ditaxis fasciculata*, Duranta repens, Eleusine indica, Eragrostis ciliaris, Eragrostis tephrosanthos, Erigeron canadensis, *Erithalis fruticosa*, *Erythroxylon brevipes*, Erythrina corallodendron, *Eugenia axillaris*, *Eugenia monticola*, *Eugenia procera*, Eupatorium conyzoides, Euphorbia buxifolia, Euphorbia heterophylla, Euphorbia hypericifolia, *Euphorbia petiolaris*, Euphorbia pilulifera, Evolvulus glaber, Evolvulus sericeus, *Exostemma caribaeum*, *Fagara martinicensis*, Fagara spinifex, *Fagara trifoliata*, *Ficus populnea*, Galactia rubra, Gouania domingensis, Guettarda parvi-

folia, Gyminda latifolia, Gynandropsis pentaphylla, Heliotropium indicum, Heliotropium parviflorum, Hemidioda ocymifolia, Hippomane mancinella, Hura crepitans, Hymenaea Courbaril, Hyptis pectinata, Ipomoea dissecta, Ipomoea fastigiata, Indigofera suffruticosa, Iresine elatior, *Jacquinia armillaris*, Jatropha curcas, Jatropha gossypifolia, *Justicia sessilis*, Kallstroemia maxima, *Krugiodendron ferreum*, Kyllingia brevifolia, Lagascea mollis, Lantana Camara, Lantana involucrata, Leonotis nepetaefolia, Leonurus sibiricus, Lepidium virginicum, Leucaena glauca, Leucas martinicensis, Lippia reptans, Lithophila muscoides, Lochnera rosea, *Malpighia augustifolia*, Malpighia punicifolia, Malvastrum spicatum, Mangifera indica, *Mariscus capillaris*, Melia azedarach, Melicocca bijuga, Melochia tomentosa, Microtea debilis, Moringa oleifera, Morisonia americana, Murraya exotica, Neptunia plena, Ocimum micranthum, Oldenlandia herbacea, Oplismenus setarius, Panicum colonum, *Panicum diffusum*, Panicum geminatum, Panicum insulare, Panicum prostratum, Panicum sanguinale, Parkinsonia aculeata, Parthenium Hysterophorus, Paspalum hemisphaericum, Pavonia spinifex, *Pectis humifusa*, *Pedilanthus tithymaloides*, *Peperomia Langsdorffii*, Persea americana, Petiveria alliacea, Philoxerus vermicularis, Phyllanthus niruri, Physalis angulata, *Picramnia pentandra*, Piscidia piscipula, Pisonia aculeata, Pisonia fragans, *Pisonia subcordata*, Pithecolobium unguis cati, *Plumiera alba*, Plumiera rubra, Polanisia viscosa, Portulaca halimoides, Portulaca oleracea, Priva echinata, Psidium Guajava, Psychotria horizontalis, *Randia aculeata*, Rauwolfia Lamarckii, *Rhacoma crossopetalum*, Rhynchosia reticulata, Rivina humilis, Ruellia tuberosa, *Salvia serotina*, *Samyda serrulata*, Schaefferia frutescens, Setaria setosa, Setaria viridis, Sida carpinifolia, Sida ciliaris, Sida cordifolia, Sida supina, Solanum nigrum nodiflorum, Solanum racemosum igneum, Solanum torvum, Spermacoce tenuior, Sporobolus indicus, Sporobolus virginicus, Stachytarpheta jamaicensis, *Stenandrum rupestre*, Stenolobium stans, *Stigmatophyllon periplocifolium*, Stylosanthes hamata, Talinum triangulare, Tamarindus indica, Tecoma leucoxylon, Teramnus labialis, Thespesia populnea, Thunbergia fragans, Tillandsia recurvata, *Tournefortia foetidissima*, Tournefortia volubilis, Tragus racemosus, Tribulus cistoides, Triumfetta rhomboidea, Vernonia punctata, Villamilla octandra, Waltheria americana, *Wedelia buphthalmoides*, Zizyphus Jujuba.

CHAPTER II

DESCRIPTION OF THE DIFFERENT TYPES OF THE VEGETATION.

Introduction.

In chapter I of the Third Part I divided the vegetation of the Dutch West Indian Islands into three regions: 1. the higher parts, 2. the level plains and the lower part of the slope of the hills, 3. the slope of the hills joining the seashore together with the seashore. Whereas I refer for further details to the Geographical Part I draw the attention to the fact that on St. Eustatius the three regions are well developed. In Saba, however there is almost no level plain to be seen, whereas in St. Martin there is but a very small part of the Island that belongs to the first region.

There is a close connection between the above given data and the development of the three typical forms of the vegetation.

1. **ERIODENDRONVEGETATION.**
2. **CROTONVEGETATION.**
3. **LITTORALVEGETATION.**

The first two names are taken from *Eggers* Flora of St. Croix and the Virgin Islands.

ERIODENDRONVEGETATION.

This type of vegetation is best characterised by the following trees: Capparis cynophallophora, Capparis frondosa, Capparis jamaicensis, Ardisia coriacea, Rauwolfia Lamarkiana, Linociera compacta, Pisonia fragans, Daphnopsis caribaea, Coccoloba diversifolia, Clusia alba, Ternstroemia peduncularis, Nectandra coriacea, Inga laurina, Picrasma antillana, Ficus populnea, Ficus Urbaniana, Ficus Krugiana, Allophylus occidentalis, whereas Eugenia axillaris, Eugenia cordata, Eugenia ligustrina, Myrcia splendens, Palicourea Pavetta, Psychotria horizontalis, Psychotria rufescens, Chiococca

racemosa, Samyda serrulata, Casearia parvifolia, Byrsonima spicata, Erythroxylon havanense, Vernona punctata, are the most predominant shrubs. In very humid localities the soil is covered by Peperomia glabella, Peperomia obtusifolia and Pilea semidentata.

St. Eustatius.

The Eriodendronvegetation is well developed on the higher parts of the Quill and on those parts of the northern hilly country that are shut in between the higher tops, viz the ravines.

Quill. The higher parts of the Quill are covered by a forest of evergreen plants and interspersed beween these evergreens there are some species with deciduous leaves; all the plants named on pag. 282 and 283 as typical for the Eriodendronvegetation are to be seen here.

The lower parts of this region show some plants that occur also in the Crotonvegetation viz. Acacia, Croton, Lantana, Solanum. Shrubs and smaller trees: Chrysobalanus icaco, Symplocos martiniccensis, Rauwolfia Lamarckiana, Tabernaemontana critrifolia, Lonchocarpus violacea, Casearia parvifolia, are forming a dense mixture and gradually pass into the forest of the higher tops; there we see a real tropical rainforest with its typical features. The trees that dominate on this top are: Linociera compacta, Nectandra coriacea, Inga laurina, Myrcia paniculata, Myrcia splendens, Psychotria rufescens, Eugenia ligustrina, Micoma laevigata, Byrsonima spicata, Clusia alba, Ceiba pentandra, Pisonia fragans, Coccoloba diversifolia, Ardisia guadalupensis, Daphnopsis carabaea, Bursera simaruba, Ficus Krugiana, Cestrum laurifolum, Allophylus occidentalis, Tecoma leucoxylon, Celtis Iguanacea, Casearia parvifolia, Persea gratissima, Ternstroemia peduncularis, Tabernaemontana citrifolia, Guettarda scabra, Ficus laevigata. On humid localities we see the following plants: Peperomia glabella, Pilea semidentata, Anthurium oxycardium. Especially the eastern part of the Top of the Quill is very humid and there Clusia alba, Linociera compacta and Myrtaceae are covered with Tillandsia recurvata. The inner slope of the Quill has the same plants, which occur on the outer slope, but moreover the following plants are to be seen here: Ceiba pentandra, Piper reticulatum and Piper dilatatum, Urera Caracasana, Pharus glaber, Panicum divaricatum, Oplismenus setarius, Smilax coriacea, Stenochlaena sorbifolia, Cyathea serra, Begonia domingesis, Phoebe elongata, Hyperbaena domingensis, Pisonia aculeata, Psychotria uliginosa, Palicourea Pavetta,

Heliconia Bihai, Asplenium obtusifolum, Asplenium cristatum, Asplenium serratum, Stenochlaena sorbifolia, Polypodium Phyllitidis, Polypodium lycopodioides, Dryopteris parasitica, whereas Boehmeria ramiflora, Peperomia scandens together with Araceae cover humid rocks. There occur in the Quill also Coffea arabica, Theobroma Cacao, Spondias lutea and Mammea americana.

Northern hilly country. In the northern hilly country the Eriodendronvegetation is to be found in the ravines and other parts which are not exposed to the heavy winds and where a certain amount of humus is covering the rocks.

It may easily be recognised here by the great amount of smaller trees and shrubs mentioned on page 282 and 283, whereas the higher trees that are to be seen in the Quill are almost absent. Moreover there is a great quantity of trees, which certainly are not wild here. intermixed with the lower shrubs viz: Tamarindus indica, Melicocca bijuga, Moringa oleifera, Spondias purpurea, Persea americana.

The species that predominate here in the northern Eriodendronvegetation are: Rhacoma crossopetalum, Eugenia ligustrina, Eugenia procera, Samyda serrulata, Eugenia axillaris, Trema Lamarckiana. Pithecolobum unguis-catis, Celtis Iguanacea, Guettarda parvifolia, Schaefferia frutescens, Krugiodendron ferreum, Chiococca racemosa, Randia aculeata, Erythroxylon brevipes, Erythroxylon havanense, Pisonia aculeata, Guettarda scabra, Bumelia obovata, Anona muricata, Anona squamosa, Rauwolfia Lamarckiana.

Here in the northern hilly country no sharp difference can be traced between the Eriodendronvegetation and the Crotonvegetation, nor between the latter and the Vegetation of the rocky slopes of the hills.

Where this Crotonvegetation begins to change into the Eriodendronvegetation we see the following plants: Lantana Camara, Lantana involucrata, Croton flavens, Croton astroites, Bernardia corensis, Wedelia buphthalmoides, Melochia tomentosa, Fourcroya gigantea, Vernonia punctata, Stylosanthes hamata, Portulaca oleracea, Panicum divaricatum, Melocactus communis, Tragus racemosus, Ruellia tuberosa, Pectis humifusa, Desmanthus virgatus, Sida ciliaris, Justicia sessilis, Commelina virginica, Setaria setosa, Jatropha gossypifolia, Opuntia triacantha, Cordia sulcata, Gouania domingensis, Cissus sicyoides, Rhynchosia reticulata, Stigmatophyllon periplocifolium, Tillandsia utriculata, Phoradendron trinervium.

The are very few herbaceous plants; only in humid localities some species of Peperomia are to be seen.

Saba.

On Saba the Eriodendronvegetation is well developed in the guts and those parts of the lower slopes of the hills which are not used for cultivation. The plants typical for this vegetation are Eugenia axillaris, Pisonia obtusata, Anona muricata, Stenolobium Stans, Lantana Camara, Tournefortia foetidissima, Chiococca racemosa, Trema Lamarckiana, Pithecolobium unguis-cati, Allophylus occidentalis, Nectandra Krugii, Schoepfia Schreberi, Capparis cynophallophora, Casearia parvifolia, Hyperbaena domingensis, Pisonia aculeata, Celtis Iguanacea, Symplocos martinicencis, Coccoloba diversifolia, Myrcia coriacea, Tabernaemontana citrifolia, Coccoloba nivea, Capparis frondosa, Chrysobalanus icaco, Inga laurina, Erythroxylon havanense, Picrasma antillana, Daphnopsis caribaea, Amomis caryophyllata, Clusia alba, Miconia laevigata, Ardisia coriacea, Citharexylum quadrangulare, Cestrum laurifolum, Tecoma leucoxylon, Psychotria rufescens.

It must however be understood that there are but few parts of Saba where the Eriodendronvegetation has the same feature as that of the northern hilly country of St. Eustatius. Whereas the shrubs of the latter contain some Myrtaceae, these plants do not occur in Saba in a great quantity; the trees that give a typical aspect to the Quill vegetation viz. Linociera compacta, Nectandra coriacea, do not occur on Saba except sporadically.

There is however another part of the Eriodendronvegetation in Saba covering the higher tops of the Mointain, where the typical plants of a real tropical rainforest occur.

The greater part of the plants we meet in this part of Saba are not known from St. Eustatius and St. Martin and chiefly occur in Guadaloupe and other Antilles with high mountains. The feature of this rainforest is given to it by the Treeferns: Hemitelia horrida, Alsophila phalerata, Cyathea serra, Cyathea arborea together with Euterpe.

On the most humid localities occur: Psychotria pendula, Hillia parasitica, Maregravia umbellata, Heliconia Bihai, Fagara martinicensis, Nectandra Krugii, Psychotria rufescens, Besleria lutea, Gesneria ventricosa, Charianthus crinitus, Peperomia emarginella, Peperomia urocarpa, Peperomia hernandifolia, Hymenophyllum hirtellum, Trichomanes alatum, Polypodium trichomanoides, Utricularia alpina, Ornithidium coccineum. The soil is densely covered by: Dryopteris parasitica, Dryopteris reticulata, Aspidium Plumierii, Aspidium trifoliatun, Polybotrya cervina, Neptrolepis exal-

tata, Diplazium striatum, Blechum occidentale, Stenochlaena sorbifolia, Neurogramme calomelanos, Lonchitis hirsuta, Polypodium brasiliense, Polypodium crassifolium, Polypodium loriceum, Polypodium piloselloides, Elaphoglossum conforme, Elaphoglossum latifolium, Gleichenia bifida.

St. Martin.

The well developed Eriodendronvegetation of Saba and St. Eustatius with its typical plants is not so pronounced in St. Martin. Small remnants of an in former times well developed Eriodendron vegetation are to be found on the tops of the Milldrumhill, Mount Paradis, Nakedboyhill, Centryhill and on the higher parts of the road from Filipsburg to Marigot. The following plants make it sure that these parts are covered by the Eriodendronvegetation: Panicum divaricatun, Peperomia obtusifolia, Peperomia glabella, Polypodium aureum, Daphnopsis caribaea, Miconia laevigata, Tabernaemontana citrifolia, Samyda serrulata, Inga laurina.
Moreover there are to be seen the following plants: Guettarda scabra, Myrcia coriacea, Casearia parvifolia, Pisonia fragrans, Peperomia Langsdorffii. Especiallly typical for St. Martin are the many individuals that may be found of Samyda serrulata, Coccoloba nivea, Pisonia fragrans, Comocladia ilicifolia, Schaefferia frutescens and of the following ones unknown from St. Eustatius and Saba: Picramnia pentandra, Bunchosia nitida, Casearia sylvestris, Eugenia monticola, Tournefortia hirsutissima.
Coccoloba diversifolia, Allophylus occidentalis, Ardisia coriacea, Linociera compacta, Cestrum laurifolium do not occur on St. Martin. Where the Crotonvegetation comes in connection with the Eriodendronvegetation, especially in the northern parts of St. Martin we find another number of plants not known on the other Dutch West Indian Islands viz. Malpighia augustifolia, Bunchosia nitida, whereas there occur also in great quantity, Samyda serrulata, Pisonia subcordata, Capparis frondosa and Capparis jamaicensis.

CROTONVEGETATION.

The Crotonvegetation is characterised by Croton, Acacia, Lantana, Solanum racemosum, Melochia tomentosa, Opuntia triacantha, Opuntia Tuna, Opuntia Ficus indica and Melocactus.

St. Eustatius.

The level country and the lower parts of the slopes of the hills

which are not used by man for agricultural purposes, are covered with the Crotonvegetation. Moreover this vegetation is to be seen also in the northern hilly country as well on the slopes of the hills as on the higher localities viz. Boven.
Especially in the hilly country there is not a great difference between a poorly developed Crotonvegetation and that of the rocky slopes. The Crotonvegetation on St. Eustatius has not the same aspect over the whole Island.
Where Croton flavens is predominant and but a few trees like Pisonia subcordata are growing among the lower shrubs, the Crotonvegetation has a very monotonous aspect and it is not very difficult to walk through it; we find this form of the Crotonvegetation near Boven.
In the lower parts of St. Eustatius the Croton is much more intermixed with other plants such as Acacia tortuosa, Solanum racemosum and igneum, Pisonia subcordata, Tecoma leucoxylon. Crescentia Cujete, Ceiba pentandra, Leucaena glauca, Plumbago scandens, Randia aculeata, Jatropha gossypifolia, Lochnera rosea, Cassia bicapsularis and other ruderalplants. From the Cactaecae there are to be seen Opuntia Tuna, Opuntia Ficus Indica, Opuntia triacantha and Melocactus communis.
Moreover there is a great quantity of Lantana Camara, Lantana involucrata, Waltheria americana, Melochia tomentosa, Stigmatophyllon periplocifolium and Tournefortia volubilis. This type op the Crotonvegetation. is to be seen especially near Bengalen and between Oranjestad and Fort de Wind.
Still another feature of the Crotonvegetation is to be mentioned where Krameria ixina is predominant; this typical Crotonvegetation is only to be seen near Fort de Wind; here the plants are much smaller and the soil is covered bij ruderalplants.

Saba.

The Crotonvegetation of Saba is not well developed; from the plants typical for this vegetation on St. Eustatius Acacia Farnesiana is not to be seen in Saba, whereas the other plants although they occur in Saba are nowhere in such quantities as to predominate and to form a real Crotonvegetation.

St. Martin.

The level part of St. Martin as far as it is not used for agricultural purposes and the slopes of the surrounding hills are covered with the Crotonvegetation.

This Crotonvegetation has another aspect as the one of St. Eustatius, owing to different other plants that are intermixed with the St. Eustatiusplants viz. Croton betulinus, Euphorbia petiolaris, Plumera alba, Fagara spinifex, Fagara trifoliata, Ditaxis fasciculata, Argithamnia candicans, Adelia ricinella, Comocladia ilicifolia, Melochia tomentosa, Phyllanthus epyphyllanthus, Coccoloba Krugii, Jacquinia Berteri.
Here also the Crotonvegetation shows some likeness with the Eriodendronvegetation and especially in the Lowlands and near Orientbay we see the Crotonvegetation gradually intermixed with or replaced by the Eriodendronvegetation; there we find the following plants: Eugenia axillaris, Capparis frondosa, Chiococca racemosa, Picramnia pentandra, Capparis cynophallophora, Pithecolobium ungius-cati, Comocladia ilicifolia, Casearia parvifolia, Samyda serrulata, Croton flavens, Melochia tomentosa, Plumiera alba, Acacia Farnesia, Lantana Camara, Lantana involucrata, Argithania candicans, Rauwolfia Lamarkiana, Clerodendron aculeatum, Comocladia ilicifolia, Capparis jamaicensis. Byrsonima lucida, Eugenia axillaris, Myrcia coriacea, Calyptranthes Boldinghii, Terntroemia peduncularis, Chrysobalanus Icaco, Eugenia ligustrina, Ficus laevigata, Clusia alba, Psidium Guajava, Randia aculeata, Pisonia subcordata, Bursera simaruba, Euphorbia petiolaris, Cassia polyadena, Paspalum paniculatum, Stigmatophyllon sericeum, Croton betulinus, Ruellia tuberosa. Cassia occidentalis, Stachytarpheta jamaicensis, Melocactus communis.

LITTORAL VEGETATION.

The Littoralvegetation may easely be divided into:

1. Vegetation of the beach.
2. Vegetation of the rocky slopes near the seashore.
3. Vegetation of the lagoons and the saltponds.

I. Vegetation of the Beach.

This vegetation is characterised by:
Hippomane mancinella, Erithalis fruticosa, Exostemma caribaeum, Suriana maritima, Canella alba, Tournefortia gnaphalodes, Scaevola Plumieri, Coccoloba uvifera, Ipomoea pescaprae, Heliotropium curassavicum, Sporobolus virginicus.

St. Eustatius.

This vegetation is only to be seen at the different Bays.
The trees which mostly occur are Hippomane mancinella and Coccoloba uvifera. The smaller plants are Tournefortia gnaphalodes, Suriana maritima and Clerodendron aculeatum, Ipomoea pescaprae, Canavalia obtusifolia, Sporobolus virginicus, Heliotropium curassavicum and Lithophila muscoides.
On localities where the ruderal plants have also invaded into the seashore we see the following plants: Caesalpinia ciliata, Jatropha gossypifola, Lantana Camara, Acacia macracantha, Plumbago scandens and Solanum racemosum igneum. Where the seashore does not consist of sand but only of stones the vegetation is still less developed and we only find Portulaca halimoides, Euphorbia buxifolia, Tephrosia cinerea and Borreria podocephala.

Saba.

The seashore and accordingly also the Seashorevegetation is almost not developed on Saba; only at Flatpoint there is a small beach and the plants to be found there are: Lithophila muscoides, Sesuvium portulacastrum, Stylosanthes hamata and Turnera ulmifolia.

St. Martin.

Here the beach is very well developed along the southern part of the Island near Grande Case and near Orientbay; the typical plants to be met with are: Erithalis fruticosa, Exostemma caribaeum, Canella alba, Borrichia argentea, Jacquinia armillaris, Suriana maritima, Chrysobalanus icaco, Conocarpus erectus, Strumpfia maritima, Jacquinia Berteri, Phyllanthus epiphyllanthus, Caesalpinia ciliata, Caesalpinia crista, Tournefortia gnaphalodes, Scaevola Plumierii, Bumelia obovata, Coccoloba uvifera, Ernodea litoralis, Ipomoea pescaprae, Heliotropium curassavicum, Sporobolus virginicus.

II. Vegetation of the Rocky Slopes near the Seashore.

I refer to the Geographical and Orological Section where may be seen where these rocks are to be found.
The plants typical for this vegetation are: Coccoloba uvifera, Jacquinia armillaris, Tecoma leucoxylon, Rhacoma crossopetalum, Conocarpus erectus, Erythalis fruticosa, Melocactus communis, Pe-

dilanthus tithymaloides, Dactyloctenium aegyptium, Aristida americana.

St. Eustatius.

This vegetation is formed here by the following plants: Pedilanthus tithymaloides, Fourcroya gigantea, Opuntia spinosissima, Lochnera rosea, Croton flavens, Jacquinia armillaris, Erythalis fruticosa, Melocactus communis, Opuntia triacantha, Opuntia Tuna, Opuntia Ficus indica, Jacquinia armillaris, Conocarpus erecta, Acacia macracantha, Tecoma leucoxylon, Dactyloctenium aegyptium, Pappophorum alopecuroideum, Euphorbia articulata, Eragrostis ciliaris, Aristida americana, Pectis humusa. Ernodea littoralis and Strumpfia maritima are to be seen on the White Wall only.

Saba and St. Martin.

Whereas the plants occurring on the rocky parts of these Islands do not differ from those on St. Eustatius this vegetation needs no further description.

I will only mention that Jacquinia armillaris has not been seen on Saba. The following summary of the plants found on the small Islands Green Island, Green Key and Tintamarre may give an idea of the vegetation there.

On Green Island I collected the following plants:

Euphorbia articulata, Coccoloba uvifera, Tecoma leucoxylon, Mariscus brizaeus, Opuntia Funa.

On Green Key I collected the following plants: Euphorbia buxifolia, Portulaca halimoides, Lantana involucrata, Croton flavens, Acacia Farnesiana, Beloperone eustachiana, Lithophila muscoides, Tournefortia gnaphalodes, Batis maritima, Hippomane mancinella, Opuntia Ficus indica, Melocactus communis, Coccoloba uvifera. The vegetation is a mixture of Croton- and Littoralvegetation.

The Island of Tintamarre that partly is used for cultivation of Cotton and consists also out of limestone I saw the following plants: Mariscus brizaeus, Guajacum officinale, Evolvulus argyraeus, Heliotropium microphyllum, Borrichia arborescens, Jacquemontia pentantha, Desmanthus depressus, Fagara flava, Panicum prostratum, Beureria succulenta, Tournefortia volubilis, Plumiera alba, Pedilanthes tithymaloides, Bignonia ungius-cati, Hippomane mancinella, Rauwolfia Lamarckii, Melochia tomentosa, Croton flavens, Croton betulinus, Amarantus polygonoides, Cenchrus tribuloides, Pappophorum alopecuroideum, Sesuvium portulacastrum, Erithalis fruti-

cosa, Myrcia splendens, Rhacoma crossopetalum, Stigmatophyllon periplocifolium, Argithamnia candicans, Turnera ulmifolia.
On this Island as may be seen from the above mentioned species there is a typical Littoral- and Crotonvegetation which wholly resembles the one on St. Martin.

III. Vegetation of the Lagoons and the Saltponds.

This Vegetation is to be seen on St. Martin only; the typical plants are Rhizophora Mangle, Laguncularia racemosa, Avicennia nitida. Accordingly we find here a Mangrovevegetation whereas in the neighbourhood of the Saltponds are to be seen Batis maritima, Pycreus flavescens, Eleocharis capitata together with other small plants of the beach.

VEGETATION OF THE CULTIVATED REGION.

This vegetation needs no further explanation as it is of no phytogeographical interest; for further details I refer to page 270, 274, 275, 280 and 281.
From the data given by *Feenstra* in his: De Nederlandsche West-Indische eilanden etc. as well as from the data gathered by myself when collecting the plants on the different parts of the Islands it is evident that in former time a much greater part of St. Eustatius was in cultivation; I refer also to the Rapport of *Went*; not only the northern hilly country but also the inner part of the Quill shows some plants that certainly were introduced there by man.
The greater part of the localities of Saba that are apt for cultivation is used for that purpose whereas on St. Martin the greater part of the level plains and the lower slopes of the hills are in cultivation; the top of Mount Paradis certainly was used in former times for the same purposes.
The well developed meadows in St. Martin take up a great part of this Island.

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F. A. F. C. Went: Rapport omtrent den toestand van land- en tuinbouw op de Nederlandsche Antillen, bijlage V van het Koloniaal verslag van Curaçao van 1902.

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Adam's needle = Yucca aloifolia Linn. 36.
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Bastard white root = Aegiphyla martinicensis Jacq. 171.
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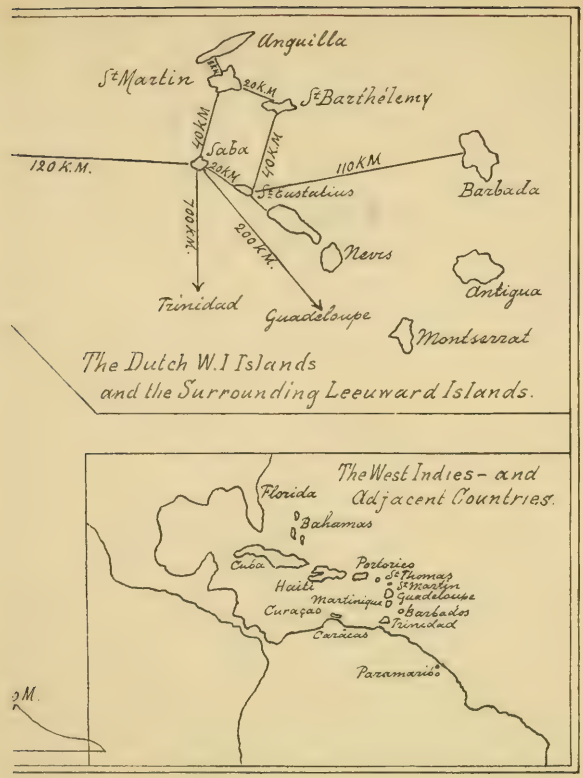
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200 K.M.
Nevis
Antigua
Trinidad
Guadeloupe
Montserrat
The Dutch W.I Islands
and the Surrounding Leeuward Islands.
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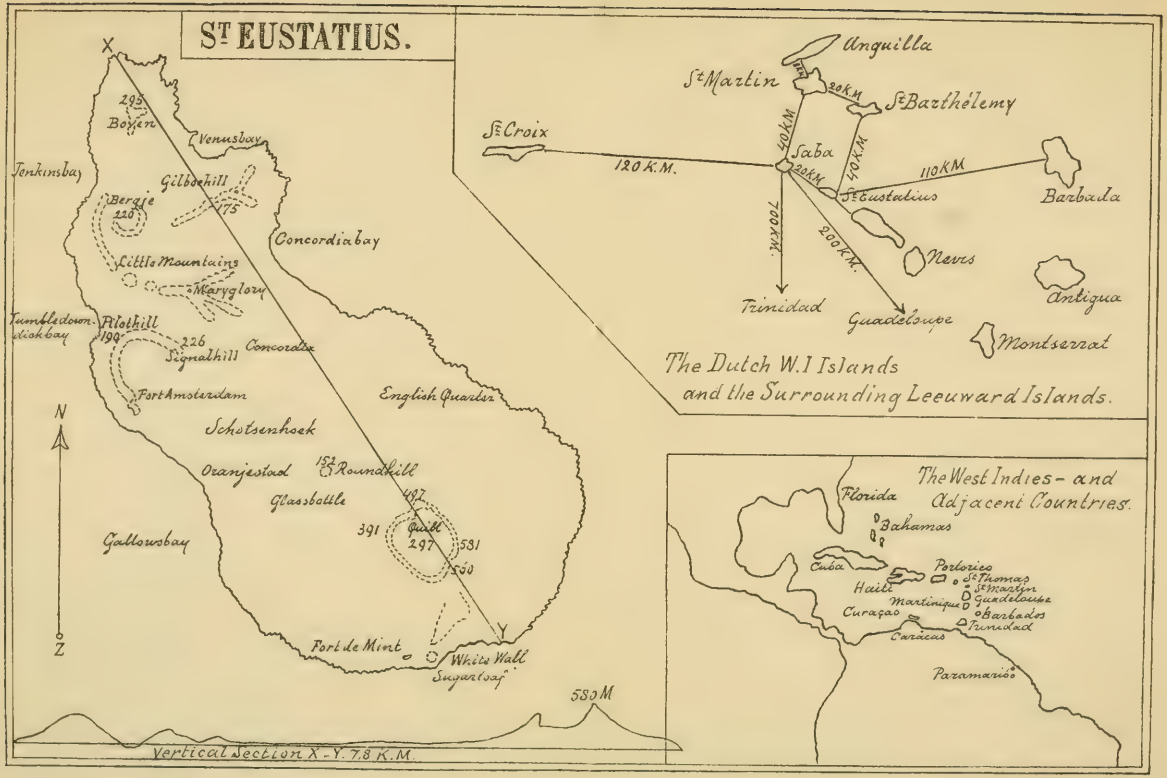

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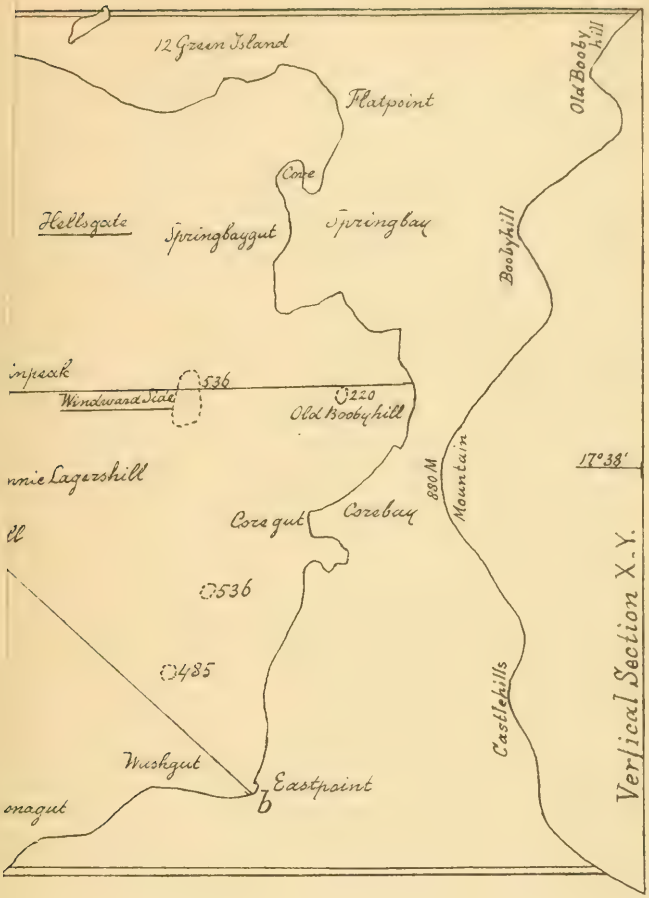
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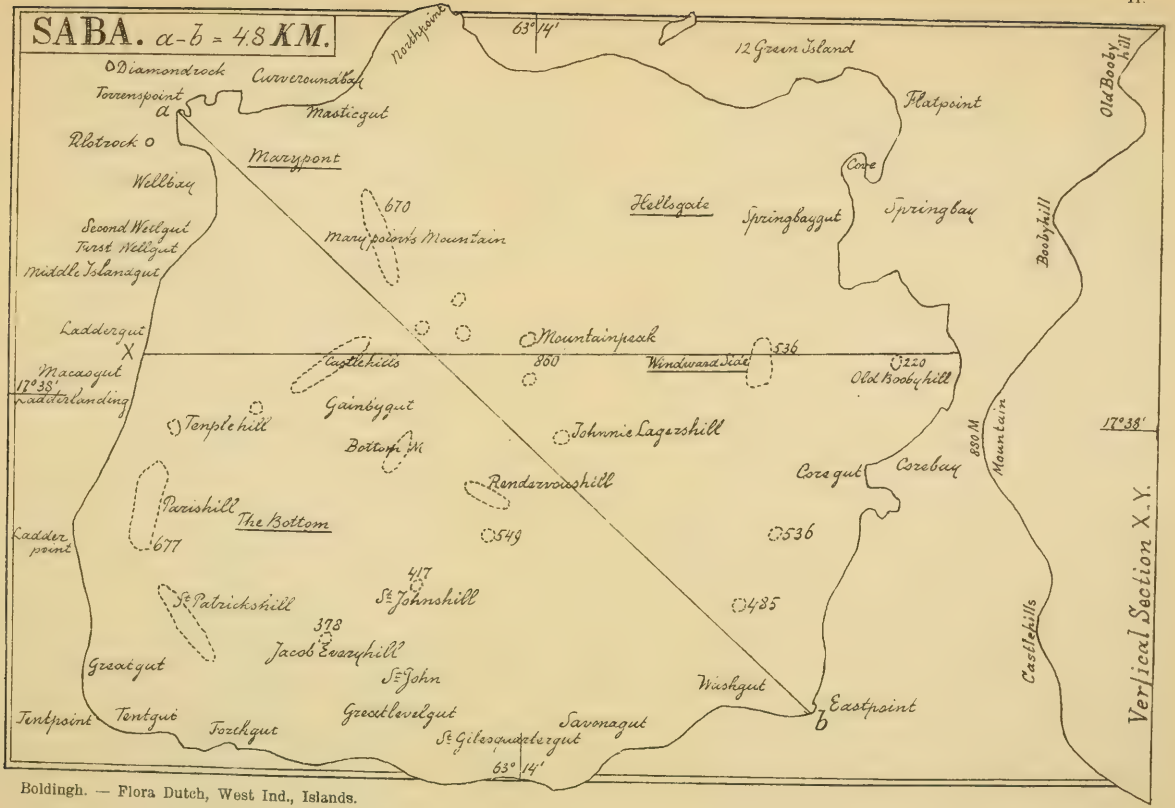

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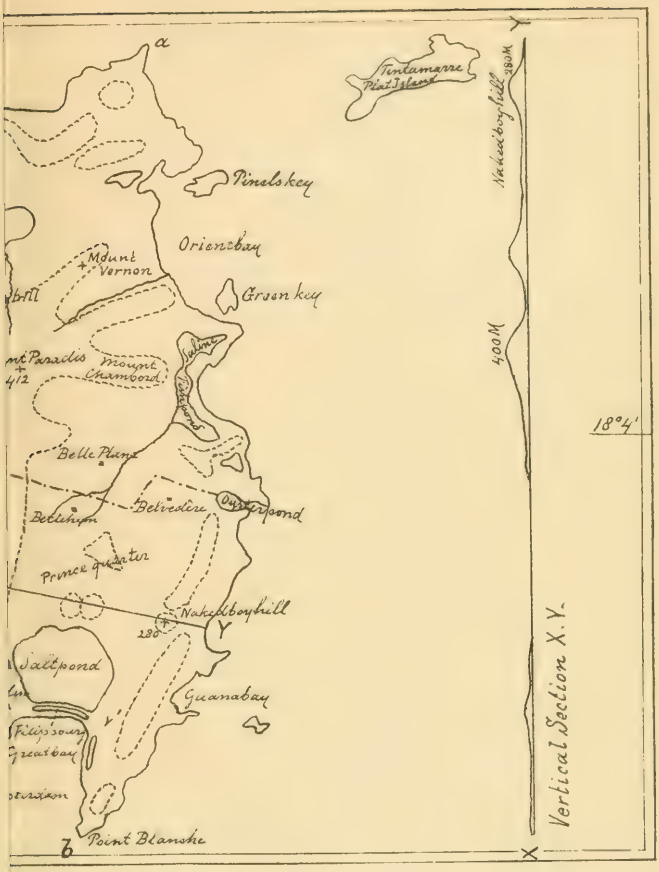
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Flat Island
Nakedboyhill
280M
Pinelskey
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Mount Vernon
Green key
Mount Paradis
Mount Chamford
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Belleisle
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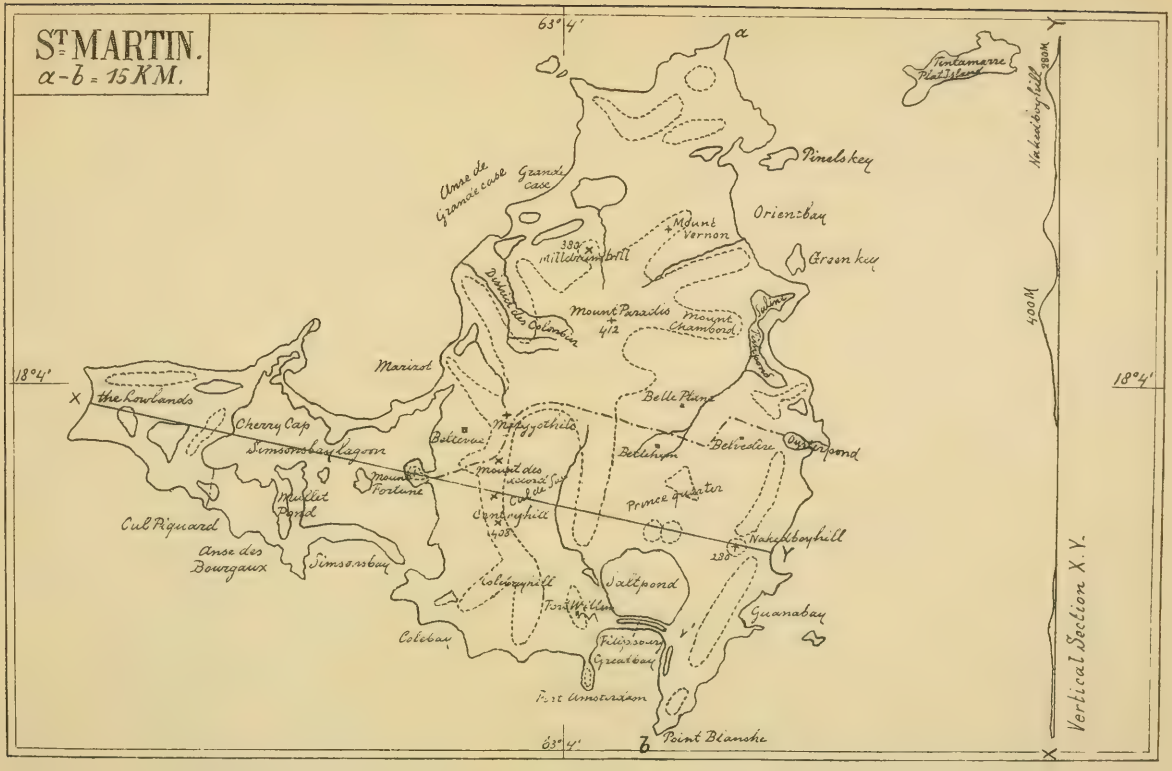

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